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Date: <u>September 5, 2008</u> Initial: <u>(Misseers)</u>

acility Identification Number: (LD)	000	wood Nudew Power States - One Falder Set 806508	
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Total -1

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.8 RFI Progress Reports	.1 Administrative Record 3008(h) Order
.9 Interim Measures Correspondence	.2 Other Non-AR Documents
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Note: Transmittal Letter to Be Included with Reports. Comments: Gre. Kalderseill



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION V 230 SOUTH DEARBORN ST. CHICAGO. ILLINOIS 60604

REPLY TO ATTENTION OF:

RCRA ACTIVITIES

MEMMINGER THOS DIR WATER QUAL COMMONWEALTH EDISON CO BRAIDWOOD G*

PO BOX 767 ROOM 1700E CHICAGO

IL 60690

FACILITY: DIVISION STREET RD

LOCATION: BRACEVILLE IL 60407

ID NO.: ILD000806505

RE: TSD Notification without

Part A Application

Dear Notifier:

The United States Environmental Protection Agency (U.S. EPA) has received your notification of hazardous waste activity. On that form, by checking the "treat/store/dispose" (TSD) box, you indicated that you are a hazardous waste management facility (HWMF). To date, however, we have no record of having received Part A application for a hazardous waste permit which is required for all HWMFs.

Federal regulations require owners and operators of existing HWMFs (installations which treat, store, or dispose of hazardous waste) to have submitted a Part A permit application to the Regional Administrator by November 19, 1980, in accordance with 40 CFR 122.22. This requirement applied to HWMFs which were in existence on or before November 19, 1980. New facilities (those established after November 19, 1980) are required to submit Part A and Part B of their permit application, and receive a Resource Conservation and Recovery Act (RCRA) permit before beginning physical construction.

If your facility treats, stores, or disposes of hazardous waste, then your facility is operating without a hazardous waste permit, in violation of Section 3005 of RCRA, as amended. This violation is considered serious by the U.S. EPA, and may subject you to Federal enforcement under Section 3008 of RCRA for past and continued non-compliance.

Please submit your completed Part A application to the address below within fifteen days of receipt of this letter:

RCRA ACTIVITIES
P. O. Box A3587
Chicago, Illinois 60690-3587

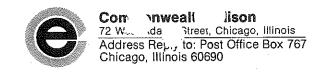
We are aware that some hazardous waste handlers may have marked the TSD box on the notification form as a precaution or as a result of misunderstanding the May 19, 1980, hazardous waste regulations. If you notified us as a TSD in error, or if your status as a treatment, storage, or disposal facility has changed, please advise us in writing immediately.

Please contact Arthur Kawatachi of my staff at (312) 353-2197, if you have any questions regarding this letter.

Sincerely yours.

Karl J. Klepitsch, Jr., Chief

Waste Management Branch



October 4, 1982

RCRA Activities
P.O. Box A3587
Chicago, Illinois 60690-3587
Attn: Karl J. Klepitsch, Chief
Waste Management Branch

Subject: Improper Notification of TSD Activity

Facility I.D. Number: ILD 000806505

Dear Mr. Klepitsch:

In response to your letter of September 28, 1982 we wish to inform you that Commonwealth Edison's Braidwood Station in Braceville, Illinois, U.S. EPA's Facility I.D. Number ILD 000806505 is not in fact a hazardous waste treatment, storage or disposal (TSD) facility. This facility was erroneously identified as a TSD facility on this facility's notification of hazardous waste activity. Because this facility is not a TSD, we will not be submitting a Part A application.

Should you have any questions regarding this matter, please call Angela Jankousky of my staff at 312/294-4458.

Sincerely,

Thomas E. Hemminger

Director of Water Quality

0599E ALJ:TEH:pp



217/782-6762

0630050001 -- Grundy County Refer to:

Commonwealth Edison -- Braidwood Nuclear Power Station

ILD000806505 RCRA Permits Log No. A-421

Date Received: October 31, 1990

December 19, 1990

Commonwealth Edison ATTN: Mr. Thomas B. Hemminger Post Office Box 767 Chicago, Illinois 60690-0767

Dear Mr. Hemminger:

This letter acknowledges receipt of Part A of the RCRA permit application which was submitted for the Commonwealth Edison, Braidwood Nuclear Power Station located east of Route 53, 1.5 miles south of Route 113, near Braidwood, Illinois. Based upon a review of this application, IEPA has determined that the subject facility qualifies for "interim status", as the requirements of 35 IAC 703.153 have been met. Thus, certain "mixed waste" (wastes which are both hazardous and radioactive) may be stored on-site for time periods longer than 90 days in accordance with the following requirements:

- A maximum of 2200 gallons of waste may be stored in containers in the container storage area (SOI) shown in Attachment 3 of the application (referred to as the "Mixed Waste Storage Location").
- 2. Only those mixed wastes which carry the EPA Hazardous Waste No. F001 may be stored in the container storage area identified in Item 1 above;
- Management and storage of mixed wastes at this facility must be carried out in accordance with 35 IAC 702, 703, 705, 721, 722 and 725. This includes the financial assurance requirements of 35 IAC 725, Subpart H.
- According to discussions with Judy Freitag, Commonwealth Edison will only store mixed waste in the area identified in Item 1 above for time periods longer than 90 days. Therefore, only wastes which are both radioactive and RCRA hazardous may be stored for time periods longer than 90 days in this area. Wastes which are RCRA hazardous but not radioactive shall be managed in accordance with the requirements of 35 IAC 722.

As specified in 35 IAC 703.150(b), IEPA will in the future request that Part B of the RCRA permit application be submitted for review and approval. At that time, Commonwealth Edison will have six (6) months (minimum) to submit the



Page 2

application. Once received, the IEPA will begin reviewing this application in accordance with the procedures set forth in 35 IAC 705. Until such time as final action is taken on the Part B application, operation of the mixed waste container storage area at this facility will remain subject to the requirements of 35 IAC 725.

If you have any questions regarding this letter, please contact Jim Moore of my staff at 217/782-6762.

Very truly yours,

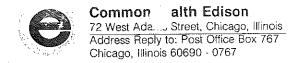
Lawrence W. Eastep, P.F. Manager

Pérmit Section

Division of Land Pollution Control

LWE: JKM: 1ab/4101n, 8-9

cc: Division File Maywood Region USEPA, Region V -- Art Kawatachi 🗸 USEPA, Region V -- George Hamper USEPA, Region V -- Mary Murphy Planning and Reporting Section Glenn Savage Gary King Division of Legal Counsel IDNS, Joe Klinger



October 31, 1990

HAND DELIVERED

George Hamper
Chief, Il RCRA Section
Mail Code 58R-13
U. S. Environmental Protection Agency, Region V
Post Office Box 7861
230 South Dearborn
Chicago, Illinois 60604

Meccan

00731**1990**

U. S. EPA, REGION V SWB - PMS

Subject:

Part A of the RCRA Permit Application for the Mixed Waste Storage Units at Commonwealth Edison Company Nuclear Power Stations

Dear Mr. Hamper:

Low-level radioactive waste which is also a "hazardous" waste as defined by the Resource Conservation and Recovery Act (RCRA) is considered "mixed waste". Currently, no permitted waste disposal site accepts mixed waste. Therefore, mixed waste which has been generated by Commonwealth Edison's six nuclear power stations must be stored on site until an off-site disposal facility becomes available. Storing mixed waste on site for longer than 90 days will subject these stations to the interim status storage requirements of 35 IAC 725 (40 CFR 265).

In accordance with the RCRA interim status requirements, Commonwealth Edison Company hereby submits a copy of Part A of the RCRA permit application for each of the facilities listed below:

		L.F.
•	Braidwood Nuclear Power Station	ILD000806505 /
•	Byron Nuclear Power Station	ILD000806521 √
•	Dresden Nuclear Power Station	ILD000665489
•	LaSalle County Nuclear Power Station	ILD000803643 /
•	Quad Cities Nuclear Power Station	ILD060862810 /
*	Zion Nuclear Power Station	ILD010217156 - lelit. 303

Should you have any questions concerning the information provided, please contact Judy Freitag at 312/294-3016.

Sincerely,

Thomas E. Hemminger

Environmental Services Manager

9144e JAF:TEH:ssp

cc: J. A. Freitag

B. M. McCann

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Please refer to Section Villne by Notification of Regulated Line Instructions for Completing EPA Form 8700-12 before completing this form The **Waste Activity**

Date Received -

(For Official Use Only) SEC 88 2000 sted here is ection 3010 of servation and United States Environmental Protection Agency EPA ID Number (Mark 'X' in the appropriate box) C Installation's EPA ID Number B. Subsequent Notification Notification. (Complete item C) tallation (Include company and specific site name) 🦟 5 Installation (Physical address not P.O. Box or Route Number) Medate 53 CHST Street (Continued) 又 City or Town State Zip Code 0 County Name County Code IV. Installation Mailing Address (See instructions) TU Street or P.O. Box 2001 RR Ď City or Town State Zip Code BIRIAIC V. Installation Contact (Person to be contacted regarding waste activities at site). Name (Last) (First) NT Job Title Phone Number (Area Code and Number) R 5 8 VI. Installation Contact Address (See instructions) B. Street or P.O. Box Location Mailing 9 2000 City or Town State Zip Code IEPA+DLPC VII. Ownership (See instructions) A. Name of Installation's Legal Owner ON GE N Street, P.O. Box, or Route Number \circ City or Town State Zip Code DOWN ER 605 D. Change of Owner Indicator C. Owner Type B. Land Type **Date Changed** Phone Number (Area Code and Number) Month Day P

EPA Form 8700-12 (Rev. 12/99)

1/12/01 AL

		ID For Official Use Only
VIII Type of Regulated Waste Activity (Mark	X in the appropriate boxes. Refer to Instr	ructions)
A. Hazardous Wast	Construction of the State of the Construction of the Construction of the Construction	C. Used Oil Management Activities
1: Generator (See Instructions) a. Greater than 1000kg/mo (2,200 lbs.) b. 100 to 1000 kg/mo (220-2,200 lbs.) c. Less than 100 kg/mo (220 lbs) 2. Transporter (Indicate Mode in boxes 1:5 below) a. For own waste only b. For commercial purposes Mode of Transportation 1. Air 2. Rail 3. Highway 4. Water 5. Other - specify	3. Treater, Storer, Disposer (at installation) Note: A permit is required for this activity, see instructions. 4. Exempt Boiler and/or industrial Furnace a. Smelting, Melting, and Refining Furnace Exemption b. Small Quantity On-Site Burner Exemption Judger Control 5. Underground Injection Control	1. Used Oil Transporter/Transfer Facility - Indicate Type(s) of Activity(ies) a. Transporter. b. Transfer Facility 2. Used Oil Processor/Re-refiner indicate Type(s) of Activity(ies) a. Processor b. Re-refiner 3. Off-Specification Used Oil Burner 4. Used Oil Fuel Marketer. a. Marketer Who Directs Shipment of Off-Specification Used Oil to Used Oil Burner b. Marketer Who First Claims the Used Oil Meets the Specifications
B. Universal Wast	te Activity	
☐ Large Quantity Handler of Universal Waste		
IX. Description of Hazardous Wastes (Use ac	dditional sheets if necessary)	
# 1 2 FOOZ 7 8	3 F003 F004 9 10	5 F005 11 12
1. Ignitable 2. Corrosive 3. Reactive 4. Toxicity (D001) (D002) (D003) Characteristic	handles; See 40 CFR Parts 261.20 - 261.2 te codes.) List specific EPA hazardous waste number(s) for t	the Toxicity Characteristic contaminant(s)) 3 4 D008 0009
C. Other Wastes: (State-regulated or other wa	stes requiring a handler to have an I.D. nu	mber; See instructions.) 5 6
X. Certification I certify under penalty of law that this document and a system designed to assure that qualified person the person or persons who manage the system, or submitted is, to the best of my knowledge and bell submitting false information, including the possible.	nel properly gather and evaluate the inform or those persons directly responsible for ga lief, true, accurate, and complete. I am awa	nation submitted. Based on my inquiery of athering the information, the information on are that there are significant penalities for
Signature XI. Commerce	Name and Official Title (Type or prin R.M. KRICH DIRECTOR (
TLD 000806505 Note: Mail completed form to the appropriate EP.	A Regional or State Office /See Section I	V of the booklot for addresses)

SelD: For Official Use Only IX Description of Hazardous Wastes (Continued; Additional Sheet) A. Listed Hazardous Wastes. (See 40 CFR 261.31 - 33; Use this page only if you need to list more than 12 waste codes.) . 13 ----19 -23 24 🚈 -B. Toxicity Characteristic Hazardous Wastes. (See 40 CFR 261.24; Use this page only if you need to list more than 4 waste codes.) \mathcal{O}



ACKNOWLEDGEMENT OF NOTIFICATION OF HAZARDOUS WASTE ACTIVITY (VERIFICATION)

This is to acknowledge that you have filed a Notification of Hazardous Waste Activity for the installation located at the address shown in the box below to comply with Section 3010 of the Resource Conservation and Recovery Act (RCRA). Your EPA Identification Number for that installation appears in the box below. The EPA Identification Number must be included on all shipping manifests for transporting hazardous wastes; on all Annual Reports that generators of hazardous waste, and owners and operators of hazardous waste treatment, storage and disposal facilities must file with EPA; on all applications for a Federal Hazardous Waste Permit; and other hazardous waste management reports and documents required under Subtitle C of RCRA.

EPA I.D. NUMBER	• .ILD000806505 REAC	KNONLEL	JEMENT	
	COMMONWEALTH EDISON CO PO BOX 767 ROOM 1700E	BRACEN	ILLE GE	N 51
	CHICAGO	14	60690	-1
INSTALLATION ADDRESS	DIVISION STREET RD SRACEVILLE		69497	r.
EPA Form 8700-12B (4-80)	 08/14/81			



ACKNOWLEDGEMENT OF NOTIFICATION OF HAZARDOUS WASTE ACTIVITY (VERIFICATION)

This is to acknowledge that you have filed a Notification of Hazardous Waste Activity for the installation located at the address shown in the box below to comply with Section 3010 of the Resource Conservation and Recovery Act (RCRA). Your EPA Identification Number for that installation appears in the box below. The EPA Identification Number must be included on all shipping manifests for transporting hazardous wastes; on all Annual Reports that generators of hazardous waste, and owners and operators of hazardous waste treatment, storage and disposal facilities must file with EPA; on all applications for a Federal Hazardous Waste Permit; and other hazardous waste management reports and documents required under Subtitle C of RCRA.

ILD000806505 REACKNOWLEDGEMENT

COMMONWEALTH EDISON CO BRAINWOOD GEN STA
PO BOX 767 ROOM 1700E
CHICAGO IL 60690

INSTALLATION ADDRESS

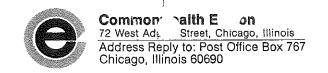
DIVISION STREET RD
BRACEVILLE IL 60407

EPA Form 8700-12B (4-80)

09/28/81:

	:	<u>w</u> 14422628	
IX. DESCRIPTION OF HAZARDOUS WASTES (con	tinued from front)	3 1 / 2	/ 13 14 15
A. HAZARDOUS WASTES FROM NON—SPECIFIC SOURCE waste from non—specific sources your installation handles.	ES. Enter the four-digit number from	40 CFR Part 261.31 for eac	h listed hazardous
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stance your installation handles which may be a hazardous	waste. Use additional sheets if necess	ary,	·
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D. LISTED INFECTIOUS WASTES. Enter the four—digit no hospitals, medical and research laboratories your installation	umber from 40 CFR Part 261.34 for ea on handles. Use additional sheets if ne	ch listed hazardous waste fro cessary.	m hospitals, veterinary
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E. CHARACTERISTICS OF NON-LISTED HAZARDOUS Nazardous wastes your installation handles. (See 40 CFR I	WASTES, Mark "X" in the boxes corr Parts 261.21 – 261.24.)	esponding to the characteristic	ics of non-listed
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X. CERTIFICATION			
I certify under penalty of law that I have persona attached documents; and that based on my inquiry I believe that the submitted information is true, ac mitting false information, including the possibility o	or of those individuals immediately curate, and complete. I am award of fine and imprisonment.	y responsible for obtainir e that there are significan	ig the information,
SIGNATURE	NAME & OFFICIAL TITLE (type or	print)	ATE SIGNED
Jew John	J. W. Johnson Vice President	791	8/14/80

EPA Form 8700412 (6-80) REVERSE



August 15, 1980

CERTIFIED MAIL

USEPA - Region V RCRA Activities P.O. Box 7861 Chicago, Illinois 60680

Subject: Notification of Hazardous Waste Activity

Dear Sirs:

Commonwealth Edison Company hereby submits notification of hazardous waste activity for thirteen operating generating stations, three generating stations under construction and the Maywood Technical Center, as required by Section 3010 of the Resource Conservation and Recovery Act (RCRA),

If there are any questions concerning the notification, please contact me at 312/294-4433,

Sincerely,

Thomas E. Hemminger

Director of Water Quality

SKW:TEH:ds

Enclosures (17)

BRAIDWOOD NUCLEAR POWER STATION Mixed Waste Storage Facility

Resource Conservation and Recovery Act

INTERIM STATUS PERMIT APPLICATION

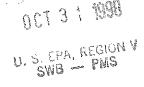
Submitted

to the

Illinois Environmental Protection Agency

on Viida

November 1, 1990



prepared by

Commonwealth Edison Company
Environmental Services Department
P.O. BOX 767, CHICAGO ILLINOIS 80690-0767

TABLE OF CONTENTS

I	A	<u>B</u>

Part A of the RCRA permit application

Permit Application

List of additional Environmental Permits

Attachment 1

Topographical Map Showing: Property Boundaires,

Property Boundaires, NPDES Discharge Points, All springs and surface

water bodies in the area

Attachment 2

Facility Drawing

Attachment 3

Facility Photograph

Attachment 4

Illinois Environmental Protection Agency



1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276, 217-782-3397 JAMES R. THOMPSON CENTER, 100 WEST RANDOLPH, SUITE 11-300, CHICAGO, IL 60601, 312-814-6026

ROD R. BLAGOJEVICH, GOVERNOR

RENEE CIPRIANO, DIRECTOR

217/524-3300

March 26, 2004

Exelon Generation Company LLC Attn: Mr. Keith Jury Director Licensing and Regulatory Affairs 4300 Winfield Road Warren, Illinois 60555

Re:

1970155012 -- Will County

Exelon - Braidwood Nuclear Power Station

ILD000806505 Log No. PS02-170

Received: July 24, 2002 and November 19, 2002

RCRA Permit File

Dear Mr. Jury:

Based on a review of information previously submitted to the Illinois EPA, the hazardous waste management unit subject to RCRA regulation at the above-referenced facility is the hazardous waste container storage (S01) area known as the "Mixed Waste Storage Facility". Exelon's Braidwood Nuclear Power Station (Braidwood Station) has a Part A application and has been operating under interim status for the purpose of storing mixed waste while disposal outlets were identified.

This is in response to two separate letters regarding Exelon Generation Company LLC's request for conditional exemption for Low-Level Mixed Waste (LLMW) Storage, Treatment, Transportation and Disposal in accordance with 40 CFR 266, Subpart N (35 Ill. Adm. Code 726, Subpart N) at the above-referenced facility. The contents of the subject submittals can be summarized as follows:

Letter from Tom P. Joyce on behalf of the above-referenced facility (Braidwood Station) dated July 18, 2002 and received July 24, 2002 by the Illinois EPA.

Letter requested conditional exemption for waste codes D001, D002, F001, F002, F005 and D008. Letter stated that "We are currently in compliance with Title 35 Illinois Administrative Code Part 726, Subpart N." In addition, letter requested that the Illinois EPA "...provide instruction on the protocol for relinquishing the Part A Interim Status."

ROCKFORD — 4302 North Main Street, Rockford, IL 61103 — (815) 987-7760 • DES PLAINES — 9511 W. Harrison St., Des Plaines, IL 60016 — (847) 294-4000 ELGIN — 595 South State, Elgin, IL 60123 — (847) 608-3131 • PEORIA — 5415 N. University St., Peoria, IL 61614 — (309) 693-5463

BUREAU OF LAND — PEORIA — 7620 N. University St., Peoria, IL 61614 — (309) 693-5462 • CHAMPAIGN — 2125 South First Street, Champaign, IL 61820 — (217) 278-5800 SPRINGFIELD — 4500 S. Sixth Street Rd., Springfield, IL 62706 — (217) 786-6892 • COLLINSVILLE — 2009 Mail Street, Collinsville, IL 62234 — (618) 346-5120 MARION — 2309 W. Main St., Suite 116, Marion, IL 62959 — (618) 993-7200

Exelon Generation Company LLC Braidwood Nuclear Power Station (PS02-170) Page 2

Submittal from Dave Wozniak of Exelon Generation dated November 14, 2002 and received November 19, 2002.

Letter contains support documentation for Exelon's contention that attachment of drum heaters to LLMW drums for treatment by heating (drying) drum contents is not intended to be regulated under RCRA. In addition, the letter states that "...RCRA container storage locations have not been utilized in the past for the storage of hazardous wastes for periods exceeding 90 days."

Based on a review of the subject submittals, it appears that Exelon's Braidwood Station has met the requirements of 35 Ill. Adm. Code 726.320 – Storage and Treatment Conditional Exemption; 35 Ill. Adm. Code 726.325 – Wastes Eligible for a Storage and Treatment Conditional Exemption for Low-Level Mixed Waste; 35 Ill. Adm. Code 726.330 – Conditions to Qualify for and Maintain a Storage and Treatment Conditional Exemption and 35 Ill. Adm. Code 726.335 – Treatment Allowed by a Storage and Treatment Conditional Exemption (the proposal to treat waste in containers by attaching drum heaters to the LLMW containers appears to be consistent with the types of treatment NRC currently allows in a tank or container). Likewise, it appears that in accordance with 35 Ill. Adm. Code 726.360 – Applicability of Closure Requirements to Storage Units, the "Mixed Waste Storage Facility" is not subject to the closure requirements of 35 Ill. Adm. Code 725. As such, Exelon's Braidwood Station is exempt from RCRA storage and treatment requirements as long as the waste is generated under a single Nuclear Regulatory Commission (NRC) license, meets the applicable conditions specified in 35 Ill. Adm. Code 726 Subpart N, and is stored and treated in a tank or container.

In addition, Exelon Braidwood Station's LLMW, identified as D001, D002, F001, F002, F005 and D008, which meet applicable treatment standards identified in 35 Ill. Adm. Code 726 Subpart N, may be conditionally exempt from RCRA transportation and disposal requirements. This waste may be disposed of at low-level radioactive waste disposal facilities which are licensed by NRC. 35 Ill. Adm. Code 726 Subpart N also provides additional flexibility for manifesting these wastes when they are destined for disposal at such facilities. Although mixed waste meeting the applicable conditions is exempt from certain RCRA requirements, it must still be managed as radioactive waste according to NRC regulations.

As long as Exelon's Braidwood Station is in compliance with the conditions specified in 35 Ill. Adm. Code 726 Subpart N, the LLMWs identified as D001, D002, F001, F002, F005 and D008 are eligible for conditional exemption from RCRA regulations for Storage, Treatment, Transportation and Disposal.

Exelon Generation Company LLC Braidwood Nuclear Power Station (PS02-170) Page 3

Please be advised that should Exelon's Braidwood Station fail to meet any of the conditions specified in 35 Ill. Adm. Code 726.330, it will automatically lose it's storage and treatment conditional exemption and be subject to the conditions specified in 35 Ill. Adm. Code 726.340 (i.e., waste that failed conditions must be managed as a RCRA hazardous waste and the storage unit storing the LLMW becomes subject to RCRA hazardous waste container storage requirements.). Procedures for reclaiming a lost storage and treatment conditional exemption are specified in 35 Ill. Adm. Code 726.345.

Likewise, should Exelon's Braidwood Station fail to meet any of the conditions specified in 35 Ill. Adm. Code 726.415, it will automatically lose it's transportation and disposal conditional exemption and be subject to the conditions specified in 35 Ill. Adm. Code 726.455. Procedures for reclaiming a lost transportation and disposal conditional exemption are specified in 35 Ill. Adm. Code 726.460.

In summary, to maintain the conditional exemptions for storage, treatment, transportation and disposal of its LLMW, Exelon's Braidwood Station must continue to meet the requirements set forth in 35 Ill. Adm. Code 726 Subpart N. In addition, Exelon's Braidwood Station must comply with the requirements of 35 Ill. Adm. Codes 726.350, 726.355, 726.415, 726.420, 726.425, 726.430, 726.435, 726.440, 726.445 and 726.450.

Should you have any questions concerning this matter, please feel free to contact John Riekstins of my staff at 217/524-3309.

Sincerely,

cc:

Joyce L. Munie, J.E.

Manager, Permit Section Bureau of Land

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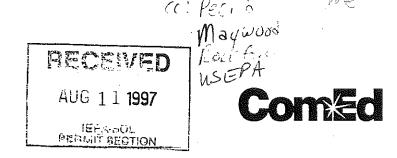
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Commonwealth Edison Company 125 South Clark Str P.O. Box 767 Chicago, IL 60690-0767



August 5, 1997

Mr. Jerry Kuhn
Illinois Environmental Protection Agency
Bureau of Land, Division of Land Pollution Control
Permits Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Subject:

Copy of RCRA Facility Plan for ComEd's Quad Cities Station and

Revised Permit Applications for ComEd Mixed Waste Facilities

Reference: Illi

Illinois EPA Log No. A-425

Dear Mr. Kuhn:

As requested, Commonwealth Edison (ComEd) is submitting a copy of the RCRA Facility Plan for Quad Cities Station for the Agency's records. Also enclosed are revised permit applications for all six ComEd mixed waste storage facilities.

Please note that the application for Zion Station (IEPA Log No. A-426) contains additional waste codes. The original waste code F001 was assigned using process knowledge of the waste in storage. Subsequent laboratory analysis has determined that additional waste codes apply to this same waste.

If you have any questions or comments regarding this submittal, please call me at (312) 394-4453.

Sincerely,

Grayce Majewski

Principal Environmental Engineer

Grayce Majewshi

Environmental Services Department

Approval:

GLM:bg\31-qperm.doc

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Form Approved, OMB No. 2050-0034 Expires 9-30-96 GSA No. 0248-EPA-OT

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EPA Form 8700-23 (Rev. 11-30-93) Previous edition is obsolete. - 1 of 7*** NOTE: For the existing facility, mixed waste has been controlled at this facility since November 1, 1987. However, mixed waste was not regulated until IEPA received authority on May 1, 1990, effective November 1, 1990.

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XII. Process Codes and Design Capacities

- A. PROCESS CODE Enter the code from the list of process codes below that best describes each process to be used at the facility. Thirteen lines are provided for entering codes. If more lines are needed, attach a separate sheet of paper with the additional information. For "other" processes (i.e., D99, S99, T04 and X99), describe the process (including its design capacity) in the space provided in item XIII.
- B. PROCESS DESIGN CAPACITY For each code entered in column A, enter the capacity of the process.
 - AMOUNT Enter the amount. In a case where design capacity is not applicable (such as in a closure/post-closure or enforcement action) enter the total amount of waste for that process.
 - UNIT OF MEASURE For each amount entered in column 8(1), enter the code from the list of unit measure codes below that describes
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- C. PROCESS TOTAL NUMBER OF UNITS Enter the total number of units used with the corresponding process code.

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- XIV. Description of Hazardous Wastes
 - A. EPA HAZARDOUS WASTE NUMBER Enter the four-digit number from 40 CFR, Part 261 Subpart D of each listed hazardous waste you will handle. For hazardous wastes which are not listed in 40 CFR, Part 261 Subpart D, enter the four-digit number(s) from 40 CFR, Part 261 Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.
 - B. ESTIMATED ANNUAL QUANTITY For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.
 - C UNIT OF MEASURE For each quantity entered in column 8 enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	к
TONS	T	METRIC TONS	м

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:

For listed hazardous waste: For each listed hazardous waste entered in column A select the code(s) from the list of process codes contained in item XII A. on page 3 to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed hazardous waste: For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.

NOTE: THREE SPACES ARE PROVIDED FOR ENTERING PROCESS CODES. IF MORE ARE NEEDED:

- Enter the first two as described above.
- Enter "000" in the extreme right box of item XIV-D(1).
- Enter in the space provided on page 7, item XIV-E, the line number and the additional code(s).
- 2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form (D.(2)).

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER - Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

- Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B, C and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
- In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste.
 In column D(2) on that line enter "included with above" and make no other entries on that line.
- 3. Repeat step 2 for each EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING ITEM XIV (shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

			`	A. E			8. ESTIMATED									D.	. PRO	OCESS
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XV. Map								
Attach to this application a topographic map, or other equivalent map, of the area extended boundaries. The map must show the outline of the facility, the location of each of its structures, each of its hazardous waste treatment, storage, or disposal facilities, and include all springs, rivers and other surface water bodies in this map area. See instructures are as previous	existing each we	and p II whe	ropo: re it i	sed inta niects i	ke an fluids	d disc under	harni	
XVI. Facility Drawing								
All existing facilities must include a scale drawing of the facility (see instructions for Same as previous	more det	tail).						
XVII. Photographs								
All existing facilities must include photographs (aerial or ground-level) that clearly de treatment and disposal areas; and sites of future storage, treatment or disposal areas Same as previous	elineate a s (see ins	ili exis structi	iting : ons f	structui or more	res; e. e deta	xisting ii).	g stor	age,
XVIII. Certification(s)								
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Note: Mail completed form to the appropriate EPA Regional or State Office. (Refer to instructions for more information)

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U.S. ENVIRONMENTAL PROTECTION AGENCY HAZARDOUS WASTE PERMIT APPLICATION Consolidated Permits Program in required under Section 3005 of RCRA.)

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C. SPACE FOR ADDITIONAL PROCESS CODE DESCRIBING OTHER PROCESSES (code "TO4"). FOR EACH PROCESS ENTERED HERE

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IV. DESCRIPTION	OF HAZARDOUS WASTI	:5

- EPA HAZARDOUS WASTE NUMBER Enter the four-digit number from 40 CFR, Support D for each listed hazardous waste you will handle. If you handle hazardous westes which are not listed in 40 CFR, Subpart D, enter the four-digit number(s) from 40 CFR, Subpart C that describes the characteris-
- B. ESTIMATED ANNUAL QUANTITY For each listed weste entered in column A estimate the quantity of that wests that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste/s) that will be handled
- C. UNIT OF MEASURE For each quantity entered in column 8 enter the unit of measure code. Units of measure which must be used and the appropriate

FOUNDS. CODE	METRIC UNIT OF MEASURE CODE
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If facility records use any other unit of measure for quentity, the units of measure must be converted into one of the required units of measure taking into

D. PROCESSES

1. PROCESS CODES:

For listed hazardous wester. For each listed hazardous weste entered in column A select the code/s/ from the list of process codes contained in Item III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed hezerdous westes: For each characteristic or toxic conteminant entered in column A, select the code(s) from the list of process codes contained in Item III to indicate all the processes that will be used to store, treet, and/or dispose of all the non-listed hazardous wastes that possess

Note: Four spaces are provided for entering process codes, if more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is not fisted for a process that will be used, describe the process in the space provided on the form,

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER - Hazardous westes that can be described by more than one EPA Hazardous Wasta Number shall be described on the form as follows:

1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B.C. and D by estimating the total annual quentity of the wests and describing all the processes to be used to treat, store, and/or dispose of the wests.

2. In column A of the next line enter the other EPA Hezerdous Wests Number that can be used to describe the wests. In column D(2) on that line enter

Repeat step 2 for each other EPA Hezardous Waste Number that can be used to describe the hazardous weste.

EXAMPLE FOR COMPLETING ITEM IV (shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two westes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill

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EPA Form 3510-3 (6-80)

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treatment, storage, or disposal facilities, a	ind each well where	it injects fluids un	dereround, Includ	de all springs, riv	or its hazardous weste rers and other surface
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XIII. CERTIFICATION (see instructions)					电系列波电影 经人
I certify under penalty of law that I have attachments and that, based on my inqu	personally examine	d and em familiar v	vith the information	on submitted in	this application and all
application, I believe that the information false information, including the possibility	n la true, accurate a	nd complete. I em	awere that there	are significant p	etien contained in the enalties for submitting
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PA Form 1510-1 (6-00) AEVERSE				•	

ATTACHMENT 1

COMMONWEALTH EDISON BRAIDWOOD STATION Part A of RCRA Application Form 1 line x

List of existing environmental permits

Illinois Environmental Protection Agency Water Pollution Control
Cooling Pond Permit #18012

ATTACHMENT 2

COMMONWEALTH EDISON BRAIDWOOD STATION Part A of RCRA Application Form 1 line x1

Topographical Map showing:

- The property boundaries of Braidwood Station
- Braidwood Station NPDES discharge points
- All springs and surface water bodies in the area

ATTACHMENT 3

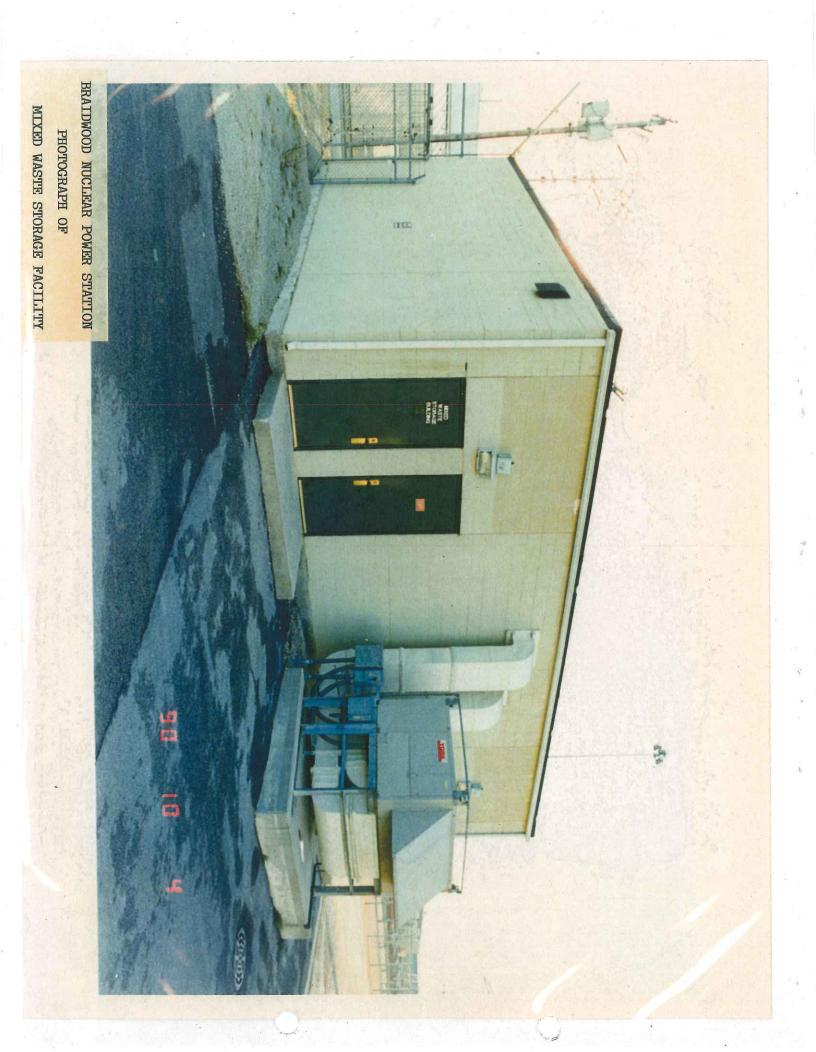
COMMONWEALTH EDISON BRAIDWOOD STATION Part A of RCRA Applitation Form 3 Time V

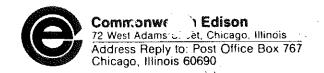
ATTACHMENT 4

COMMONWEALTH EDISON BRAIDWOOD STATION

Part A of RCRA Application Form 3 line vl

Photographs for Commonwealth Edison Braidwood Station





August 13, 1984

SMALL QUANTITY GENERATOR

Mr. Kenneth P. Bechely Northern Region Manager Field Operations Section Division of Land Pollution Control Illinois Environmental Protection Agency 1701 South First Avenue Maywood, Illinois 60153

RECEIVED

AUG 1 5 1984

ILC. E.P.A. - D.L.P.C. 140000806505 NOTTE OF ILLINOIS

Dear Mr. Bechely:

This letter is in response to your request that Commonwealth Edison Company withdraw our EPA Form 8700-12 Notification of Hazardous Activity for the Braidwood Generating Station (please reference 96300501 -Grundy County - Braceville/Braidwood Station).

Commonwealth Edison's Braidwood Generating Station is not currently regulated under 35 Ill. Adm. Code 720 through 725 as determined by the RCRA Inspection Report - Interim Status Standards, Form B Generator Inspection (40 CFR Part 262) for this facility on June 4, 1984. It is anticipated, however, than when the station passes from a construction to an operational phase, concurrent increase in routine maintenance activities would allow for the infrequent generation of some hazardous wastes. If Commonwealth Edison were to withdraw our EPA Form 8700-12 Notification of Hazardous Activity, the Company would most likely be subject to renotification in the near future with the inception of hazardous waste activity.

Please do not hesitate to contact Wendy Mouche of my staff if you require further information in this matter at 312/294-4438.

Sincerely,

Thomas E. Hemminger

Director of Water Quality

5380E WGM: TEH: dd

RECEIVED

AUG 27 1984

IEPA-DLPC

WILLIAM COOK W, L'HICAGO / DAILY MACING

DAILY RACING FORM, INC.

1301 NORTH ELSTON AVENUE

CHICAGO, ILLINOIS 60622

(312) 227-3000



DAVID SCHULTZ

14D 005 155213 NOT-ZGENERAL MANAGER

June 22, 1984 SMALL QUANTITY GENERATOR

2

Kenneth P. Bechely, Northern Region Manager Field Operations Section Division of Land Pollution Control 1701 First Avenue Maywood, Illinois 60153 RECEIVED

July 2 5 1984

BIATE OF ILLINOIS

Dear Mr. Bechely:

In response to your letter dated June 1, 1984, regarding the findings of the inspection of our facilities we thank you for your notice that we appear to be a small quantity generator.

I hereby confirm to you that, in accordance with the requirement of 35 Ill. Adm. Code 721.105, Daily Racing Form by virtue of generating less than 1,000 Kg. of hazardous waste, is a small quantity generator. Daily Racing Form's operations generate hazardous waste only in the form of printing ink mixed with a solvent. All other waste products are disposed as byproducts sold for reprocessing.

Very truly yours,

DAILY RACING FORM, INC.

DS:mm

cc: Eileen Cross

U.S. EPA, Region V

RECEIVED

"IN 27 1584

E.P.A. - D.L.P.C. STATE OF BUINDIS

7099 3400 0002 1429 8026

WASTE MANAGEMENT BRANCH

Waste, Pesticides & Toxics Division

U.S. EPA-REGION 5

CERTIFIED MAIL



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 North Grand Avenue East, P.O. Box 19276, Springfield, Illinois 62794-9276

THOMA'S V.-SKINNER, DIRECTOR

217/524-3300

May 16, 2001

Exelon Generation Company, LLC Attn: Mr. George Vanderheyden General Manager, Generation Support 1400 Opus Place, Suite 500

Downers Grove, Illinois 60515

Re: 1970155012 -- Will County

Exelon - Braidwood Nuclear Power Station

ILD000806505

RCRA Part A Permit

Log No. A-511- Modification

Received: October 13, 2000; December 26, 2000; March 15, 2001 and April 19, 2001

Dear Mr. Vanderheyden:

This letter is in response to four separate submittals from Kevin K. Hersey dated October 12, 2000; December 20, 2000; March 12, 2001 and April 9, 2001. The contents of the subject submittals can be summarized as follows:

Submittal from Commonwealth Edison (ComEd) dated October 12, 2000 (received October 13, 2000)

Submittal informed the Illinois EPA that "Commonwealth Edison and PECO Energy are merging to form a new organization to be named Exelon Corporate", of which Exelon Generation Company LLC (Exelon) is a subsidiary. The tentative date for this reorganization was to be January 1, 2001. Included in this submittal was a partially revised Part A permit application to reflect the new organization and management structure.

Submittal from ComEd dated December 20, 2000 (received December 26, 2000) Submittal contained a complete Part A permit application (replacement for the Part A application contained in the October 12, 2000 submittal). In addition, the submittal contained: (1) one photograph of the permitted hazardous waste container storage (S01) area known as the "Mixed Waste Storage Facility"; (2) Drawing No. FIP-BR-3 showing the location of the permitted hazardous waste container storage area, known as the "Mixed Waste Storage Facility" (identified in drawing as "Mixed Waste Storage Location") within the above-referenced facility; and (3) a topographic map of the above-referenced facility and surrounding areas.

GEORGE H. RYAN, GOVERNOR

- Submittal from Exelon dated March 12, 2001 (received March 15, 2001 by telefax)

 Document entitled "Evidence of Authority to Sign Environmental Permits and Other

 Environmental Related Documents" granting Mr. George Vanderheyden authorization to
 sign environmental permit applications, permit required reports and other representations
 regarding environmental requirements. The subject document was signed by Mr. Oliver
 D. Kingsley, Executive Vice President, Exelon Corporation.
- Submittal from Exelon dated April 9, 2001 (received April 19, 2001)
 Submittal contained an amended Part A permit application with the correct Secondary Identification Number.

Based on a review of the above-referenced submittals and information previously submitted to the Illinois EPA, the hazardous waste management unit subject to RCRA regulation at this facility is the hazardous waste container storage (S01) area known as the "Mixed Waste Storage Facility". The subject submittals have been reviewed as a request to modify the Part A Permit currently in effect for the above-referenced facility.

In accordance with 35 Ill. Adm. Code 703.155(a)(4), the owner or operator of an interim status facility may make "Changes in the ownership or operational control of a facility if the new owner or operator submits a revised Part A permit application no later than 90 days prior to the scheduled change. When a transfer of ownership or operational control of a facility occurs, the old owner or operator shall comply with the requirements of 35 Ill. Adm. Code 725, Subpart H (financial requirements), until the new owner or operator has demonstrated to the Agency that it is complying with the requirements of that Subpart. The new owner or operator shall demonstrate compliance with the financial assurance requirements within six months after the date of the change in the ownership or operational control of the facility. Upon demonstration to the Agency by the new owner or operator of compliance with the financial assurance requirements, the Agency shall notify the old owner or operator in writing that the old owner or operator no longer needs to comply with 35 Ill. Adm. Code 725, Subpart H as of the date of demonstration. All other interim status duties are transferred effective immediately upon the date of the change of ownership or operational control of the facility."

The Illinois EPA has determined that Exelon has met the requirements of 35 Ill. Adm. Code 703.155(a)(4), (submittal of revised Part A permit application), and hereby approves the modification request. As such, upon completion of the aforementioned transaction and notification to the Illinois EPA that the transaction has been completed, management of mixed wastes may continue under Exelon's operational control at this facility in accordance with the following requirements:

1. Unless specifically modified by this letter, management of hazardous and mixed waste at the above referenced facility shall continue to be in accordance with the Illinois EPA's letter dated November 18, 1997.

- Only those mixed wastes which have the EPA Hazardous Waste Numbers D001, D008, D035, D039, F001, F002, F003 and F005 may be stored in the permitted S01 unit identified as the "Mixed Waste Storage Facility".
- 3. A maximum of 2,200 gallons of mixed waste may be stored in containers in the storage area permitted by this permit ("Mixed Waste Storage Facility").
- 4. Storage of mixed wastes previously not identified in Part A of the permit application is subject to the requirements of 35 Ill. Adm. Code 703.155 (a)(1).
 - 5. Incompatible waste containers must be segregated from other materials or protected from them using a berm, dike or containment wall as required by 35 Ill. Adm. Code 725.277.
 - 6. The management of mixed wastes at this facility must be carried out in accordance with the applicable requirements of 35 Ill. Adm. Code 702, 703, 705, 721, 722 and 725. This includes the financial assurance requirements of 35 Ill. Adm. Code 725, Subpart H.
 - 7. Within 30 days of this letter, Exelon must provide a detailed closure cost estimate for the permitted S01 unit known as "Mixed Waste Storage Facility".

The Illinois EPA requests Exelon to provide a notice of the modification to all persons on the facility mailing list including the appropriate units of State and local government. This notification should be made within ninety (90) calendar days of the date of this letter. A generic facility mailing list has been provided for your use. Please contact Mara McGinnis, Office of Community Relations, at 217/524-3288 for assistance with developing your facility mailing list.

As specified in 35 Ill. Adm. Code 703.150(d), Illinois EPA will in the future request that Part B of the RCRA permit application be submitted for review and approval. At that time, Exelon will have six (6) months (minimum) to submit the application. Once received, the Illinois EPA will begin reviewing this application in accordance with the procedures set forth in 35 Ill. Adm. Code 705.

Work required by this permit, your application or the regulations may also be subject to other laws governing professional services, such as the Illinois Professional Land Surveyor Act of 1989, the Professional Engineering Practice Act of 1989, the Professional Geologist Licensing Act, and the Structural Engineering Licensing Act of 1989. This permit does not relieve anyone from compliance with these laws and the regulations adopted pursuant to these laws. All work that falls within the scope and definitions of these laws must be performed in compliance with them. The Illinois EPA may refer any discovered violation of these laws to the appropriate regulating authority.

Exelon Generation Company LLC Braidwood Nuclear Power Station (A-511) Page 4

Should you have any questions concerning this matter, please feel free to contact John Riekstins of my staff at 217/524-3309.

Sincerely,

Joyce L. Munie, P. ...

Manager, Permit Section

Bureau of Land

JLM:JR\mis\012451.doc

Enclosure: Generic Facility Mailing List

cc: USEPA Region V -- Harriet Croke (w/o enclosure)

Kevin K. Hersey – Exelon (w/o enclosure)



217/732-6761

Refer to: 0630050001 -- Grandy County

Commonwealth Edison-Braidwood Muclear Power Station

(11,000008065u5 Compliance File

January 7, 1992

Commonwealth Edison Attas Judy Fraitag 72 West Adams Street Post Office Box 767 Chicago, Illinois 50890-0767

Jear Ms. Freitag:

The Agency is in receipt of your Movember 27, 1991 response(s) to car Movember 12, 1991 Compliance Inquiry Letter. Your response(s) has been reviewed and the apparent violation(s) of Section(s) 724.251 is now considered resolved.

If you have any questions, please contact Andrew Vollager at 217/732-6761.

Sincerely.

Brian S. White, Hanager Compliance Unit Planning and Reporting Section Division of Land Pollution Control

35%:AV:LS:r1c/17r,15

cc: Division File Haywood Region USEPA Region Y Andrew Vollmer Bill ingersoll Lizz Schwartzkoof



Illinois Environmental Protection Agency P. O. Box 19276, Springfield, IL 62794-9276

217/762-5751

Refer to: 0530050001 -- Grandy County Braidwood Muclear Power Station Linuwooosis Compliance Price

> W630605014 -- Greaty County Gresden Wuclear Power Station IL2000395439 Canaliance File

09/2005002 -- Lake Caunty Zion Nuclear Power Station LL0010217155 Compliance File

COPPLIANCE INQUIRY LETTER

Cartified #P 681 200 465

November 12, 1991

Commonwealth Edison Actn: Judy Preftag 72 West Adams Street Post Office Box 757 Chicago, Illinois 50690-0767

Dear Ms. Freitag:

The purpose of this letter is to address the status of the above-referenced facility in relation to the requirements of 35 III. Adv. Code Part 725 and to impaire as to your position with respect to the apparent violations identified in Attachment A and your plans to correct these apparent violations. The Agency's findings of apparent non-compliance in Attachment A are based on a dovember 5, 1991 review of documents submitted to the Agency to demonstrate campliance with the requirements of Subpart H.

Please subsit in writing, within fifteen (15) calendar days of the date of this letter, the reasons for the identified violations, a description of the steps which have been taken to correct the violations and a schedule, including dates, by which each violation will be resolved. The written response, and two copies of all documents submitted in reply to this letter, should be sent to the following:



Page 2

Lizz Schwartzkopf Compliance Unit Planning and Reporting Section Illinois Environmental Protection Agency Sivision of Land Pollution Control 2200 Churchill Road Post Office lox 19275 Sominafield, Illinois 62794-9276

Enclosed are your rejected financial instruments along with new forms to be completed.

Further, take notice that non-compliance with the requirements of the Illinois Environmental Protection Act and rules and regulations adopted thereunder way be the subject of enforcement action pursuant to either the Illinois Environmental Protection Act, III. Nev. Stat., Ch. III 1/2, Sec. 1001 et seq. or the federal desource Conservation and Recovery Act (RCAA), 42 U.S.C. Sec. 6301 et seq.

If you have any questions regarding the above, please contact Andrew Vollmer at 217/782-6731.

Sincerely.

Eugene P. Theios, Hamajer Facility Reporting Unit Planning and Reporting Section Division of Land Pollutian Control

EPT:AV:LS:bin/34440/13.14

Enclosure

cc: Division File Raywood Region USEPA Region V Andrew Vollage Bill Intersoll Lizz Schwartzkopf



'Attachment A

7. Pursuant to 35 III. Adm. Code 724.251, the Board incorporates by reference 40 CFR 264.151 (1988), as amended at 53 Fed. Reg. 33950, September 1, 1988. This Section incorporates no later amendments or editions. The Agency shall promitigate standardized forms based on 40 CFR 264.151 with such changes in wording as are necessary under Illinois law. Any owner or operator required to establish financial assurance under this Subpart shall do so only upon the standardized forms promulgated by the Agency. The Agency shall reject any financial assurance document which is not submitted on such standardized forms.

You are in apparent violation of 35 III. Adm. Code 724.251 for the following reason(s):

- On the October 31, 1990 submittel you failed to complete paragraphs
 3, 4 and 5.
- 2. You failed to complete lines 12, 13 and 14.
- J. In your annual report on page 35 for the year ending 1989 it states that you have an Indiana facility included in your report, if this is a hazardous waste facility, it must be included on your letter from the chief financial officer.

The violations listed above are for your Harch 28, 1991 submittal.

EPT: AV: LS: 12/11/34440/15

CORRECTIVE ACTION STABILIZATION QUESTIONNAIRE

Completed by:	Mary Wojciechowski	
Date:	March 24, 1994	
•	•	RECEIVED WMD RECORD CENTER
Background Fa	cility Information	
		JAN 3 1 1995
Facility Name:	Commonwealth Edison	Company - Braidwood Nuclear Power Station
EPA Identification	on No.: ILD 000 806 505	·
Location (City, S	State): <u>Braidwood, Illinois</u>	· · · · · · · · · · · · · · · · · · ·
Facility Priority		
1 Is this chec	klist being completed for one	3. If corrective action activities have been
	management unit (SWMU),	initiated, are they being carried out under a
several SW Explain.	MUs, or the entire facility?	permit or an enforcement order?
•		() Operating permit
Entire facility w	hich consists of 10 SWMUs	() Post-closure permit
		() Enforcement order
		(X) Other (Explain)
	-	
a		Past corrective actions were voluntary.
	ective Action Activities at the	
Facility		A House intening management if assumed as
2 What is th	ne current status of HSWA	4. Have interim measures, if required or completed [see Question 2], been successful
	ction activities at the facility?	in preventing the further spread of
corrective at	ction activities at the facility:	contamination at the facility?
() No	corrective action activities	voncammation at all identify.
	ated (Go to 5)	() Yes
	RA Facility Assessment (RFA)	() No
	quivalent completed	() Uncertain; still underway
	RA Facility Investigation (RFI)	(X) Not required
• •	erway	
() RFI	completed	Additional explanatory notes:
() Corr	rective Measures Study (CMS)	
com	pleted	Interim measures have not been officially
* *	rective Measures Implementation	required. Soil contaminated with diesel fuel was
· ·	II) begun or completed	removed from the facility in 1991.
` '	rim Measures begun or	
com	pleted	

ray	cinty R	celeases and Exposure Concerns	Additional explanatory notes:						
5.	from to	hat media have contaminant releases the facility occurred or been suspected curring?	The nearest surface water is an on-site pond used for recreation and cooling water supply. Drinking water comes from the Kankakee River 3 miles east of the facility.						
	(X)	Groundwater							
	()	Surface water							
	()	Air	8a. Are environmental receptors currently being						
	(X)	Soils	exposed to contaminants released from the facility?						
6.	Are co	ontaminant releases migrating off-site?	<u>.</u>						
	()	Yes; Indicate media, contaminant concentrations, and level of certainty.	() Yes (Go to 9) () No (X) Uncertain						
		-	Additional explanatory notes:						
Gr	oundwa	ater:	· .						
Su	rface w	ater:	It is not known if soil contamination remains on						
			site or has migrated off site.						
	()	No	8b. Is there a potential that environmental						
	(X)	Uncertain	receptors could be exposed to the contaminants released from the facility						
7a.		numans currently being exposed to ninants released from the facility?	over the next 5 to 10 years?						
	•		(X) Yes						
	()	Yes (Go to 8a)	() No						
	()	No	() Uncertain						
	(X)	Uncertain	· ·						
			Additional explanatory notes:						
	Addit	ional explanatory notes:	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s						
			Wetlands are located near the facility						
It i	s not k	nown if soil contamination remains on	boundaries.						
		s migrated off site.	ooundurios.						
540	o or ma	s inigrated off site.	`						
_									
7b.	Ĭc	there a potential for human exposure							
70		the contaminants released from the							
	га	cility over the next 5 to 10 years?							
	αv	Van							
	(X)	Yes							
	()	No							
	()	Uncertain							

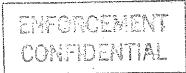
Anticipated Final Corrective Measures

9.	If already identified or planned, would final corrective measures be able to be implemented in time to adequately address any existing or short-term threat to human health and the environment?									
	() Yes (X) No () Uncertain									
	Additional explanatory notes:									
	al corrective measures have not been ntified or planned.									
10.	Could a stabilization initiative at this facility reduce the present or near-term (e.g., less than two years) risks to human health and the environment?									
	() Yes () No (X) Uncertain									
not	Additional explanatory notes: nough contaminated soil was removed, it is known if residual soil contamination rains.									
11.	If a stabilization activity were not begun, would the threat to human health and the environment significantly increase before final corrective measures could be implemented?									
	() Yes () No (X) Uncertain									

Additional explanatory notes:

	ional output
-	contaminated soil was removed, it is
	wn if residual soil contamination
remains.	
	
Technica Activities	l Ability to Implement Stabilization
12. In	what phase does the contaminant exist
	nder ambient site conditions? Check
	ll that apply.
(X)	Solid
(X)	Light non-aqueous phase liquids
<i>(</i>)	(LNAPLs)
()	Dense non-aqueous phase liquids (DNAPLs)
()	Dissolved in groundwater or surface
()	water
()	Gaseous
Ö.	Other
	
	Which of the following major chemical
g	roupings are of concern at the facility?
(X)	Volatile organic compounds (VOCs)
	and/or semi-volatiles
()	Polynuclear aromatics (PAHs)
()	Pesticides
()	Polychlorinated biphenyls (PCBs)
	and/or dioxins
()	Other organics
(X)	Inorganics and metals
.()	Explosives
(X)	Other Radioisotopes

technologies available to prevent the further spread of contamination, based	Associated with Stabilization
on contaminant characteristics and the facility's environmental setting? [See Attachment A for a listing of potential stabilization technologies.]	16. Can stabilization activities be implemented more quickly than the final corrective measures?
() Yes; Indicate possible course of action.	() Yes () No () Uncertain
	Additional explanatory notes:
(X) No; Indicate why stabilization technologies are not appropriate; then go to Question 18. Although contaminated soil was removed, it is not known if residual soil contamination remains. 15. Has the RFI, or another environmental investigation, provided the site characterization and waste release data needed to design and implement a stabilization activity?	17. Can stabilization activities be incorporated into the final corrective measures at some point in the future? () Yes () No () Uncertain Additional explanatory notes:
() Yes () No If No, can these data be obtained faster than	
the data needed to implement the final corrective measures? () Yes	
() No	•



Conclusion

18.	Is this facility an appropriate candidate for stabilization activities?
\mathbf{C}	Yes
\mathbf{C}	No, not feasible
\mathbf{C}	No, not required
(Σ	Further investigation necessary
E	aplain final decision, using additional sheets if necessary.
This i	nformation was obtained from a 1994 PA/VSI prepared by PRC Environmental Management
Inc.	
<u>In 199</u>	1, soil contaminated with diesel fuel was removed from the facility. Soil sampling to confirm that
all co	ntamination was removed was not conducted.
Furth	er investigation is necessary to determine if residual contamination exists.
	· · · · · · · · · · · · · · · · · · ·



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY MD RECORD CENTER

RECEIVED

REGION 5 77 WEST JACKSON BOULEVARD CHICAGO, IL 60604-3590

OCT 20 1995

REPLY TO THE ATTENTION OF:

HRE-8J

March 31, 1994

Mr. Kurt Kofron Station Manager Commonwealth Edison Company Braidwood Nuclear Power Station Rural Route 1, Box 84 Braceville, IL 60407

> Visual Site Inspection Re: Commonwealth Edison Company Braidwood Nuclear Power Station Braidwood, Illinois ILD 000 806 505

Dear Mr. Kofron:

The U.S. Environmental Protection Agency is enclosing a copy of the final Preliminary Assessment/ Visual Site Inspection (PA/VSI) report for the referenced facility. The executive summary and conclusions and recommendations sections have been withheld as Enforcement Confidential.

If you have any questions, please call Francene Harris at (312) 886-2884.

Sincerely yours,

Kevin M. Pierard, Chief

Minnesota/Ohio Technical Enforcement Section

RCRA Enforcement Branch

Matthew J. Oll for



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 77 WEST JACKSON BOULEVARD CHICAGO, IL 60604-3590

REPLY TO THE ATTENTION OF:

HRE-8J

December 20, 1993

DECEIVED (FAME) / S MAN WITH DORA RECORD CONTER

Mr. Kurt Kofron, Station Manager Commonwealth Edison Braidwood Nuclear Power Station Rural Route 1, Box 84 Braceville, IL 60407

Re:

Visual Site Inspection Commonwealth Edison Braidwood Nuclear Power Station Braidwood, IL ILD 000 806 505

Dear Mr. Kofron:

The United States Environmental Protection Agency (U.S. EPA) Region V will conduct a Preliminary Assessment and a Visual Site Inspection (PA/VSI) at the referenced facility. This inspection is conducted pursuant to the Resource Conservation and Recovery Act, as amended (RCRA) Section 3007 and the Comprehensive Environmental Response, Compensation, and Liability Act, as amended (CERCLA) Section 104(e). The referenced facility has generated, treated, stored, or disposed of hazardous waste subject to RCRA. The PA/VSI requires identification and systematic review of all solid waste streams at the facility. The objective of the PA/VSI is to determine whether or not releases of hazardous wastes or hazardous constituents have occurred or are occurring at the facility which may require further investigation. This analysis will also provide information to establish priorities for addressing any confirmed releases.

The visual site inspection of your facility is to verify the location of all solid waste management units (SWMUs) and areas of concern (AOCs) and to make a cursory determination of their condition by visual observation. The definitions of SWMUs and AOCs are included in Attachment I. The VSI supplements and updates data gathered during a preliminary file review. During this site inspection, no samples will be taken. A sampling visit to ascertain if releases of hazardous waste or constituents have occurred may be required at a later date.

Assistance of some of your personnel may be required in reviewing solid waste flow(s) or previous disposal practices. The site inspection is to provide a technical understanding of the present and past waste flows and handling, treatment, storage, and disposal practices. Photographs of the facility are necessary to document the condition of the units at the facility and the waste management practices used.

Mr. Kurt Kofron December 20, 1993 Page 2

The VSI has been scheduled for January 17, 1994, at 10:00 a.m. The inspection team will consist of Manoj Mishra and Scott Lloyd of PRC Environmental Management, Inc., a contractor for the U.S. EPA. Representatives of the Illinois Environmental Protection Agency (IEPA) may also be present. Your cooperation in admitting and assisting them while on site is appreciated.

The U.S. EPA recommends that personnel who are familiar with present and past manufacturing and waste management activities be available during the VSI. Access to any relevant maps, diagrams, hydrogeologic reports, environmental assessment reports, sampling data sheets, environmental permits (air, NPDES), manifests and/or correspondence is also necessary, as such information is needed to complete the PA/VSI.

If you have any questions, please contact me at (312) 886-4448 or Francene Harris at (312) 886-2884. A copy of the Preliminary Assessment/Visual Site Inspection Report, excluding the conclusions and Executive Summary portion will be sent when the report is available.

Sincerely yours,

Kevin M. Pierard, Chief

OH/MN Technical Enforcement Section

Enclosure

cc:

Larry Eastep, IEPA Springfield Susan George, IEPA Maywood Pat Boyle, Commonwealth Edison Louis Magers, Commonwealth Edison Joe Tidmore, Commonwealth Edison

ATTACHMENT I

The definitions of solid waste management unit (SWMU) and area of concern (AOC) are as follows.

A SWMU is defined as any discernable unit where solid wastes have been placed at any time from which hazardous constituents might migrate, regardless of whether the unit was intended for the management of a solid or hazardous waste.

The SWMU definition includes the following:

- RCRA regulated units, such as container storage areas, tanks, surface impoundments, waste piles, land treatment units, landfills, incinerators, and underground injection wells
- Closed and abandoned units
- Recycling units, wastewater treatment units, and other units that U.S. Environmental Protection Agency has generally exempted from standards applicable to hazardous waste management units
- Areas contaminated by routine and systematic releases of wastes or hazardous constituents, such as wood preservative treatment dripping areas, loading or unloading areas, or solvent washing areas

An AOC is defined as any area where a release to the environment of hazardous wastes or constituents has occurred or is suspected to have occurred on a nonroutine or nonsystematic basis. This includes any area where such a release in the future is judged to be a strong possibility.

PRC requests that, if available, the following facility information be provided during the VSI:

- 1. Two copies of a detailed map of the facility
- 2. Facility history, including dates of operation, ownership changes, and production processes
- 3. Current facility operations
- 4. Processes that generate waste that is treated, stored, or disposed of at the facility
- 5. Records of disposal of wastes generated at the facility (manifests, annual reports, etc...)
- 6. Security at the facility
- 7. Information regarding geology and the uses of ground water and surface water in the area
- 8. Permits (air, NPDES, etc...) the facility currently holds or has held in the past and documentation of any permit violations that may have occurred
- 9. Records of any spills that may have occurred at the facility
- Descriptive operational information (location, dimensions, capacity, materials of construction, etc...), dates of start-up and closure, wastes managed, release controls, and release history for each SWMU

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PRELIMINARY ASSESSMENT/ VISUAL SITE INSPECTION

COMMONWEALTH EDISON COMPANY BRAIDWOOD NUCLEAR POWER STATION BRAIDWOOD, ILLINOIS ILD 000 806 505

FINAL REPORT

Prepared for

U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Waste Programs Enforcement Washington, DC 20460

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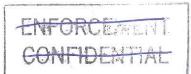
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EXECUTIVE SUMMARY

PRC Environmental Management, Inc. (PRC), performed a preliminary assessment and visual site inspection (PA/VSI) to identify and assess the existence and likelihood of releases from the solid waste management units (SWMU) and other areas of concern (AOC) at the Commonwealth Edison Company, Braidwood Nuclear Power Station (Braidwood) facility in Braidwood, Will County, Illinois. This summary highlights the results of the PA/VSI and the potential for releases of hazardous wastes or hazardous constituents from the SWMUs and AOCs identified.

The Braidwood facility is a full-steam electricity generation facility. Two water-pressurized nuclear fission reactors provide steam used to rotate turbines and the electricity generators coupled with them. Each of the reactors at Braidwood use the following three closed-loop cycles: (1) a primary cycle that provides heat to generate steam; (2) a secondary cycle that runs the turbines; and (3) a cooling cycle that cools steam exhausted by the secondary cycle, condensing the exhausted steam back to water, which is used again.

Hazardous wastes generated at the Braidwood facility include the following: mixed waste (F001), waste petroleum naphtha (D001, D018, and D039), waste monoethanolamine (D007, D008, D018, D021, D027, D039, and D040), spent chlorinated solvents (F002 and F003), spent nonchlorinated solvents (D001, D018, and D039), freon-contaminated oil and water (F002 and F003), and nonroutine wastes (various waste codes). The following nonhazardous wastes are generated at the facility: spent resins, spent charcoal, waste grease, spent mineral spirit, used oil, lime sludge, wastewater, and wastewater treatment plant (WWTP) sludge. According to facility representatives, mixed waste (F001), waste petroleum naphtha (D001, D018, and D039), and waste monoethanolamine (D007, D008, D018, D021, D027, D039, and D040) are no longer generated at the facility.

In October 1990, the facility filed a Part A permit application that listed the process code for a container storage (S01) unit with a capacity of 2,200 gallons. This process code referred to the facility's Mixed Waste Container Storage Area (CSA) (SWMU 1). According to the application, 85 gallons of mixed waste are stored at the facility. At the time of the VSI, the Braidwood facility had

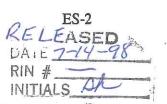
not submitted a Part B permit application for SWMU 1 and was operating as an interim status treatment, storage, or disposal facility.

The PA/VSI identified the following 10 SWMUs at the facility:

- 1. Mixed Waste CSA
- 2. Hazardous Waste CSA
- 3. Used Oil Storage Pad
- 4. Used Oil Storage Tank
- 5. Hazardous Waste Satellite Accumulation Areas (SAA)
- 6. Indoor Oil Skimmer
- 7. Outdoor Oil Skimmers
- 8. WWTP
- 9. WWTP Sludge Pond
- 10. Lime Sludge Pond

No AOCs were identified during the PA/VSI.

The potential for release from all facility SWMUs to all environmental media is low. Mixed Waste CSA (SWMU 1) manages waste in closed containers that are kept inside secondary containers made of polyethylene. The secondary containers are surrounded by spill control booms and are stored on a concrete floor inside a building. The concrete floor is covered with polyacrylate terrazzo and has no drain. Hazardous Waste CSA (SWMU 2) manages hazardous and nonhazardous wastes in closed containers on a concrete pad inside a building. The concrete floor has a berm and no drains. Used Oil Storage Pad (SWMU 3) manages nonhazardous waste in closed containers outdoors on a bermed concrete pad. A drain in the concrete pad leads to the Outdoor Oil Skimmers (SWMU 7). Used Oil Storage Tank (SWMU 4) manages nonhazardous waste in an aboveground storage tank (AST). The AST is located inside a building and over a concrete floor and is surrounded by a berm. A drain in the concrete floor leads to the floor drain system. All the wastewater from this floor drain system is treated in SWMU 8. Hazardous Waste SAAs (SWMU 5) manage containers of hazardous waste stored inside metal cabinets. These cabinets have spill control pans and are located indoors on a concrete floor. A drain in the concrete floor leads to the floor drain system. All the wastewater from this floor drain system is treated in SWMU 8. Indoor Oil Skimmer (SWMU 6) manages nonhazardous waste in a 55-gallon drum stored inside a building that has a concrete floor. Outdoor Oil Skimmers (SWMU 7) manage nonhazardous waste in buried concrete tanks. WWTP (SWMU 8)





manages nonhazardous waste inside a building that has a concrete floor. WWTP and Lime Sludge Ponds (SWMUs 9 and 10, respectively) manage nonhazardous wastes in clay-lined, outdoor ponds. PRC found no documentation of hazardous constituent releases from any of the facility's SWMUs.

The Braidwood facility occupies 4,457 acres in a mixed residential and undeveloped area. The facility is bordered on the north by Mount Olivet Cemetery, the village of Godley, and a trailer park; on the east by agricultural lands; on the south by unused land; and on the west by Route 53. The southern and western boundaries of the Braidwood facility are also adjacent to the boundary lines between Will and Kankakee Counties, and between Will and Grundy Counties, respectively.

The facility's main cooling pond is the nearest surface water body to the facility. The pond occupies 2,537 acres, supplies cooling water to the facility, and is used for recreational purposes. The facility's makeup and drinking water intake is from the Kankakee River at a location about 3 miles east of the facility. The Kankakee and Mazon Rivers, located about 3 miles east and 1 mile southwest of the facility, respectively, receive discharges from the facility under an National Pollutant Discharge Elimination System permit issued by the Illinois Environmental Protection Agency.

Groundwater is not used as the primary source of drinking water in the facility area. However, the town of Braidwood, located about 1.5 miles north of the facility, obtains drinking water from a deep aquifer. There are also two private wells within 2 miles of the facility that draw water from a deep aquifer. A cement bentonite slurry trench hydraulically isolates the shallow aquifer at the site from the facility surroundings.

The nearest residences are located within 0.25 mile of the facility's northeastern corner. These residences are part of the village of Godley. The town of Braidwood is about 1.5 miles north of the facility. Residences in the village of Godley and the town of Braidwood are located about 0.5 to 2 miles from the nearest active structures at the facility. Facility access is tightly restricted and monitored by double fencing, surveillance cameras, security doors, and an on-site security staff. Wetland areas of Lacustrine, Palustrine, and Riverine systems are located on and near the facility property.

PRC recommends no further action for any facility SWMUs at this time.

RELEASED DATE 1/14/98 RIN #

ENFORCEMENT

1.0 INTRODUCTION

PRC Environmental Management, Inc. (PRC), received Work Assignment No. R05032 from the U.S. Environmental Protection Agency (EPA) under Contract No. 68-W9-0006 (TES 9) to conduct preliminary assessments (PA) and visual site inspections (VSI) of hazardous waste treatment and storage facilities in Region 5.

As part of the EPA Region 5 Environmental Priorities Initiative, the RCRA and CERCLA programs are working together to identify and address RCRA facilities that have a high priority for corrective action using applicable RCRA and CERCLA authorities. The PA/VSI is the first step in the process of prioritizing facilities for corrective action. Through the PA/VSI process, enough information is obtained to characterize a facility's actual or potential releases to the environment from solid waste management units (SWMU) and areas of concern (AOC).

A SWMU is defined as any discernible unit at a RCRA facility in which solid wastes have been placed and from which hazardous constituents might migrate, regardless of whether the unit was intended to manage solid or hazardous waste.

The SWMU definition includes the following:

- RCRA-regulated units, such as container storage areas, tanks, surface impoundments, waste piles, land treatment units, landfills, incinerators, and underground injection wells
- Closed and abandoned units
- Recycling units, wastewater treatment units, and other units that EPA has usually exempted from standards applicable to hazardous waste management units
- Areas contaminated by routine and systematic releases of wastes or hazardous constituents. Such areas might include a wood preservative drippage area, a loading or unloading area, or an area where solvent used to wash large parts has continually dripped onto soils.

An AOC is defined as any area where a release of hazardous waste or constituents to the environment has occurred or is suspected to have occurred on a nonroutine and nonsystematic basis. This includes any area where a strong possibility exists that such a release might occur in the future.

The purpose of the PA is as follows:

- Identify SWMUs and AOCs at the facility
- Obtain information on the operational history of the facility
- Obtain information on releases from any units at the facility
- Identify data gaps and other informational needs to be filled during the VSI

The PA generally includes review of all relevant documents and files located at state offices and at the EPA Region 5 office in Chicago.

The purpose of the VSI is as follows:

- Identify SWMUs and AOCs not discovered during the PA
- Identify releases not discovered during the PA
- Provide a specific description of the environmental setting
- Provide information on release pathways and the potential for releases to each medium
- Confirm information obtained during the PA regarding operations, SWMUs, AOCs, and releases

The VSI includes interviewing appropriate facility staff; inspecting the entire facility to identify all SWMUs and AOCs; photographing all visible SWMUs; identifying evidence of releases; making a preliminary selection of potential sampling parameters and locations, if needed; and obtaining additional information necessary to complete the PA/VSI report.

This report documents the results of a PA/VSI of the Commonwealth Edison Company (CECO), Braidwood Nuclear Power Station (Braidwood) facility (EPA Identification No. ILD 000 806 505)

located in Braidwood, Will County, Illinois. The PA was completed on January 17, 1994. PRC gathered and reviewed information from the Illinois Environmental Protection Agency (IEPA) and from EPA Region 5 RCRA files. The VSI was conducted on January 17, 1994. It included interviews with facility representatives and a walk-through inspection of the facility. PRC identified 10 SWMUs and no AOCs at the facility.

The VSI is summarized and 14 of 25 inspection photographs taken during the VSI are included in Appendix A. Most of the photographs have been renumbered; thus, their numbers differ from the photograph numbers in the VSI field notes, which are included in Appendix B.

2.0 FACILITY DESCRIPTION

This section describes the facility's location; past and present operations; waste generating processes and waste management practices; history of documented releases; regulatory history; environmental setting; and receptors.

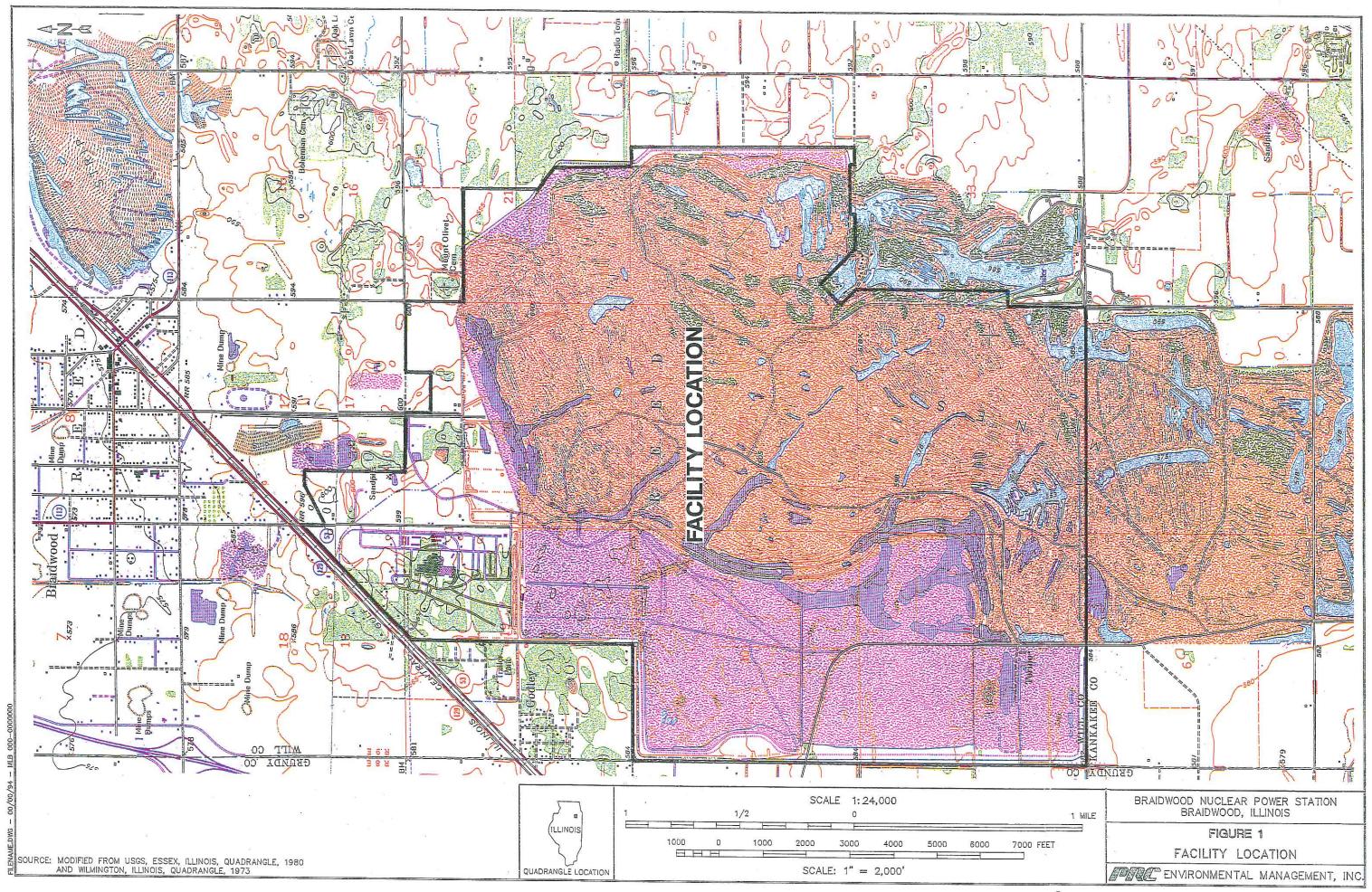
2.1 FACILITY LOCATION

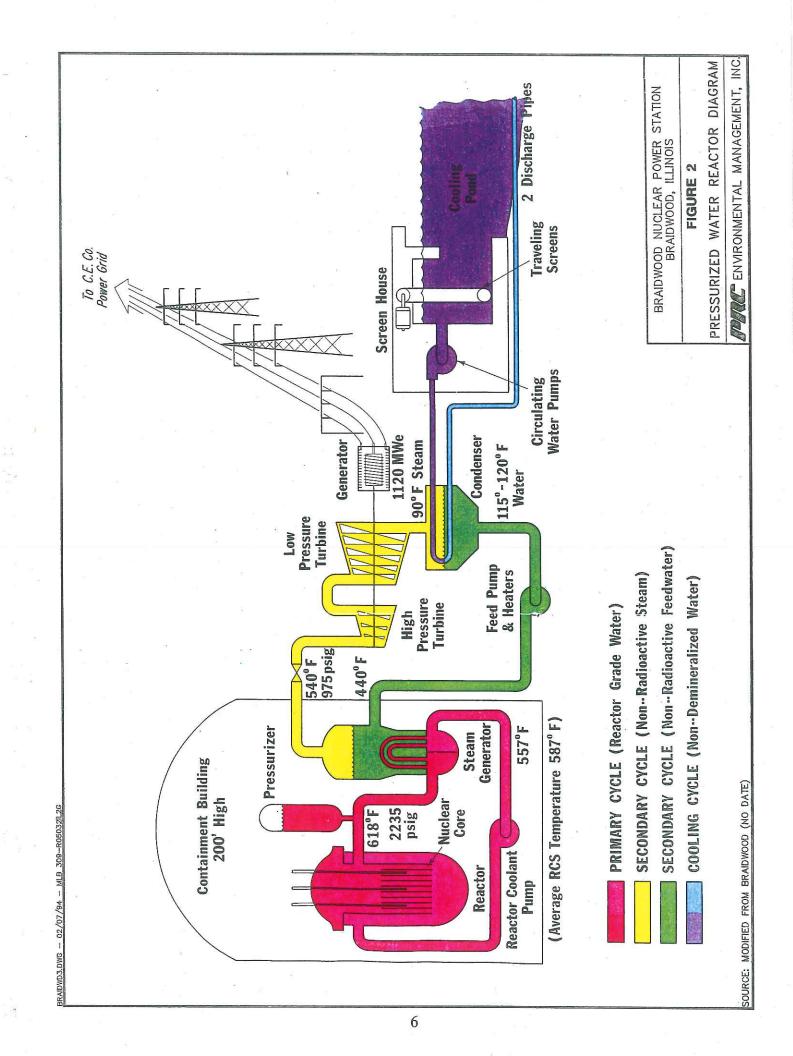
The Braidwood facility is located on Route 53 in Reed Township, Will County, Illinois. Figure 1 shows the location of the facility in relation to the surrounding topographic features [latitude 41°14'38" N and longitude 88°13'42" W (CECO, 1994)]. The Braidwood facility occupies approximately 4,457 acres in a mixed residential and undeveloped area. About 2,537 acres of the facility's property is occupied by the main cooling pond. Furthermore, approximately 6 square miles of area surrounding the facility is owned by CECO, the owner of Braidwood facility. This area is used for farming and land application of lime sludge and sewage sludge generated by the facility.

The Braidwood facility is bordered on the north by Mount Olivet Cemetery, the village of Godley, and a trailer park; on the east by agricultural lands; on the south by the unused land; and on the west by Route 53. The southern and western boundaries of the Braidwood facility are also adjacent to the boundary lines between Will and Kankakee Counties, and between Will and Grundy Counties, respectively.

2.2 FACILITY OPERATIONS

The Braidwood facility is a full-steam electricity generation facility. Two water-pressurized nuclear fission reactors provide steam used to rotate turbines and the electricity generators coupled with them. Each of the reactors at Braidwood use the following three closed-loop cycles: (1) a primary cycle that provides heat to generate steam; (2) a secondary cycle that runs the turbines; and (3) a cooling cycle that cools steam exhausted by the secondary cycle, condensing the exhausted steam back to water, which is used again. A schematic diagram showing the three cycles is presented in Figure 2.





The primary cycle is used to transfer heat from the nuclear fission reactor to heat exchangers, or steam generators, where steam is made. Major components of the primary cycle include the reactor, a pressurizer, and four coolant loops. Each of these coolant loops contains a reactor coolant pump and a steam generator, which serve as the interface between the primary and the secondary cycles. The reactor coolant pump in each coolant loop circulates radioactive reactor coolant. The flow rate, pressure, and temperature of coolant in each loop is approximately 100,000 gallons per minute (gpm); 2,235 pounds per square inch, gauge (psig); and 587 °F; respectively. The coolant from each loop passes through the reactor and then through thousands of "U-tubes" inside its respective steam generator, where heat from the nuclear chain reaction is transferred to the nonradioactive secondary cycle. A pressurizer maintains pressure within the primary cycle to keep the reactor coolant from boiling and acts as a surge tank for routine expansion and contraction of the reactor coolant as it heats and cools (CECO No Date).

The secondary cycle transfers heat from the steam generators to the turbines for electricity production. Major components of the secondary cycle include the high-pressure and low-pressure turbines, the electricity generator, and the condenser. Ultra-pure, nonradioactive water is circulated through the "secondary side" of the steam generator, where it is boiled to make high-pressure steam (975 psig at 540 °F). The pressurized steam passes through the high-pressure and low-pressure turbines, where it expands and strikes the turbine blades, causing the turbine shaft to rotate. Turbine shaft rotates the electricity generator coupled with it, which generates electricity. Steam exhausted from the low-pressure turbine is discharged to the condenser, where it is cooled and converted back to water, which is recycled through the secondary cycle (CECO No Date).

The cooling cycle for the condenser is used to remove residual heat from the steam that is exhausted from the low pressure turbine, thereby allowing the steam to be condensed to water. Cooling water is drawn from the facility's main cooling pond. The main cooling pond cools water by about 20 °F in 4.5 days. The water used to make up for evaporation that occurs at the main cooling pond is obtained from the Kankakee River (CECO No Date). The facility's intake in the Kankakee River is located about 3 miles east of the Braidwood facility (CECO 1994).

The facility replaces spent reactor fuel every 18 months. Spent fuel is removed from the reactor and replaced with fresh fuel. During these refueling periods, or "outages," the spent fuel, which is highly

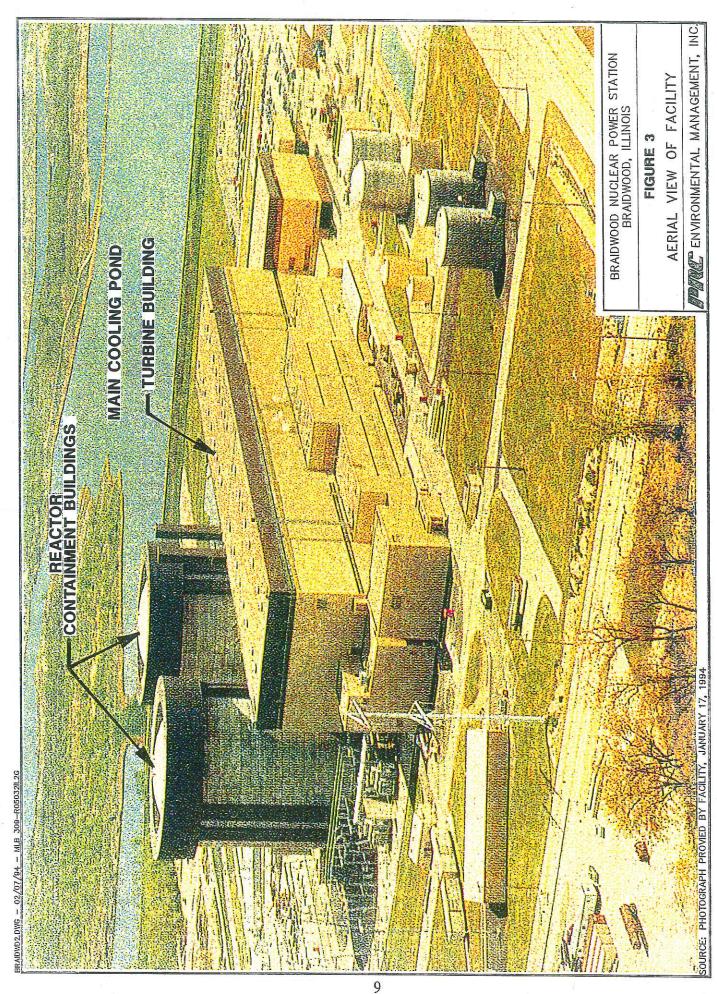
radioactive, is placed into the spent fuel storage pool located in the fuel handling building. The spent fuel storage pool is a 35.5-foot-deep pool of water that is constructed of reinforced concrete and lined with stainless steel. Spent fuel remains in the pool as the radioactive materials decay and give off heat (CECO No Date).

Construction of the Braidwood facility began in 1975. Commercial service at Units 1 and 2 began in July and October 1988, respectively. Before the facility was constructed, the general facility area was used for surface coal mining from approximately 1947 to 1974 (CECO No Date and 1994).

The facility's primary structures are the turbine building, the two reactor containment buildings, and the main cooling pond. The turbine building has four floors that are referred to by their elevation above mean sea level. The floors are referred to as Levels 569, 601, 626, and 651. The reactor containment buildings are 200-foot-tall, reinforced concrete, steel-lined cylinders that have an inside diameter of 140 feet. The buildings also extend to 60 feet below ground and are post-tensioned with steel tendons. The main cooling pond occupies 2,537 acres and is clay lined to reduce seepage (CECO No Date).

Additional structures at the facility include the fuel handling building, the auxiliary building, the access control building, a switchyard, a fire training area, the lime and the wastewater treatment plant (WWTP) sludge ponds, and the aboveground storage tanks (AST) used to store water and fuel oil. Underground storage tanks (UST) are discussed in Section 2.5. Figure 3 shows an aerial view of the Braidwood facility.

During normal operations, about 1,025 people (including Braidwood and its contractor's staff) work at the Braidwood facility. However, during outages, more people may be working on site because of additional contractor staff.



2.3 WASTE GENERATION AND MANAGEMENT

This section describes waste generation and management at the Braidwood facility. The facility's SWMUs are identified in Table 1. The facility layout, including SWMUs, is shown in Figure 4. The facility's waste streams are summarized in Table 2. Unless otherwise noted, waste characterizations and generation rates, where available, were provided by facility representatives during the VSI. Facility representatives also stated that the Braidwood facility has implemented a waste minimization and inventory-control program since the facility began operations. This section does not discuss the generation of high-level and low-level radioactive wastes, which are not considered mixed wastes and are regulated by the Nuclear Regulatory Commission (NRC). Additionally, units that manage these radioactive wastes, such as the spent fuel storage pool and radioactive waste treatment systems, are not discussed.

In the following text, the phrases "water treatment" and "wastewater treatment" refer to specific facility operations. The phrase "water treatment" refers to the treatment of water that is used for steam generation during secondary cycle, and as potable water within the facility. The phrase "wastewater treatment" refers to the treatment of nonradioactive wastewaters excluding sewage.

Hazardous wastes generated at the Braidwood facility include the following: mixed waste (F001), waste petroleum naphtha (D001, D018, and D039), waste monoethanolamine (D007, D008, D018, D021, D027, D039, and D040), spent chlorinated solvents (F002 and F003), spent nonchlorinated solvents (D001, D018, and D039), freon-contaminated oil and water (F002 and F003), and nonroutine wastes (various waste codes). The facility generates the following nonhazardous wastes: spent resins, spent charcoal, waste grease, spent mineral spirit, used oil, lime sludge, wastewater, and wastewater treatment plant (WWTP) sludge. According to the facility representatives, mixed waste (F001), waste petroleum naphtha (D001, D018, and D039), and waste monoethanolamine (D007, D008, D018, D021, D027, D039, and D040) are no longer generated at the facility.

About 85 gallons of mixed, low-level radioactive and hazardous waste (F001) was generated when a parts cleaning machining was cleaned in the auxiliary building (CECO 1990). The parts cleaning machine was cleaned in mid-1990 and is stored in a warehouse at the facility (PRC 1994a). Because of the difficulties associated with shipping mixed waste to an appropriate off-site disposal facility, this

TABLE 1
SOLID WASTE MANAGEMENT UNITS

SWMU Number	SWMU Name	RCRA Hazardous Waste Management Unit ²	Status
1	Mixed Waste Container Storage Area (CSA)	Yes	Active; stores mixed waste for greater that 90 days
2	Hazardous Waste CSA	No	Active; stores hazardous waste for less than 90 days and stores nonhazardous waste
3	Used Oil Storage Pad	No	Active; stores nonhazardous waste
4	Used Oil Storage Tank	No	Active; stores nonhazardous waste
5	Hazardous Waste Satellite Accumulation Areas (SAA)	No	Active; accumulates hazardous waste
6	Indoor Oil Skimmer	No	Active; separates oil from wastewater
. 7	Outdoor Oil Skimmers	No	Active; separates oil from wastewater
8	Wastewater Treatment Plant (WWTP)	No	Active; treats wastewater
. 9	WWTP Sludge Pond	No	Active; stores sludge from WWTP
10	Lime Sludge Pond	No	Active; stores sludge from water treatment

Note:

A RCRA hazardous waste management unit is one that currently requires or formerly required submittal of a RCRA Part A or Part B permit application.

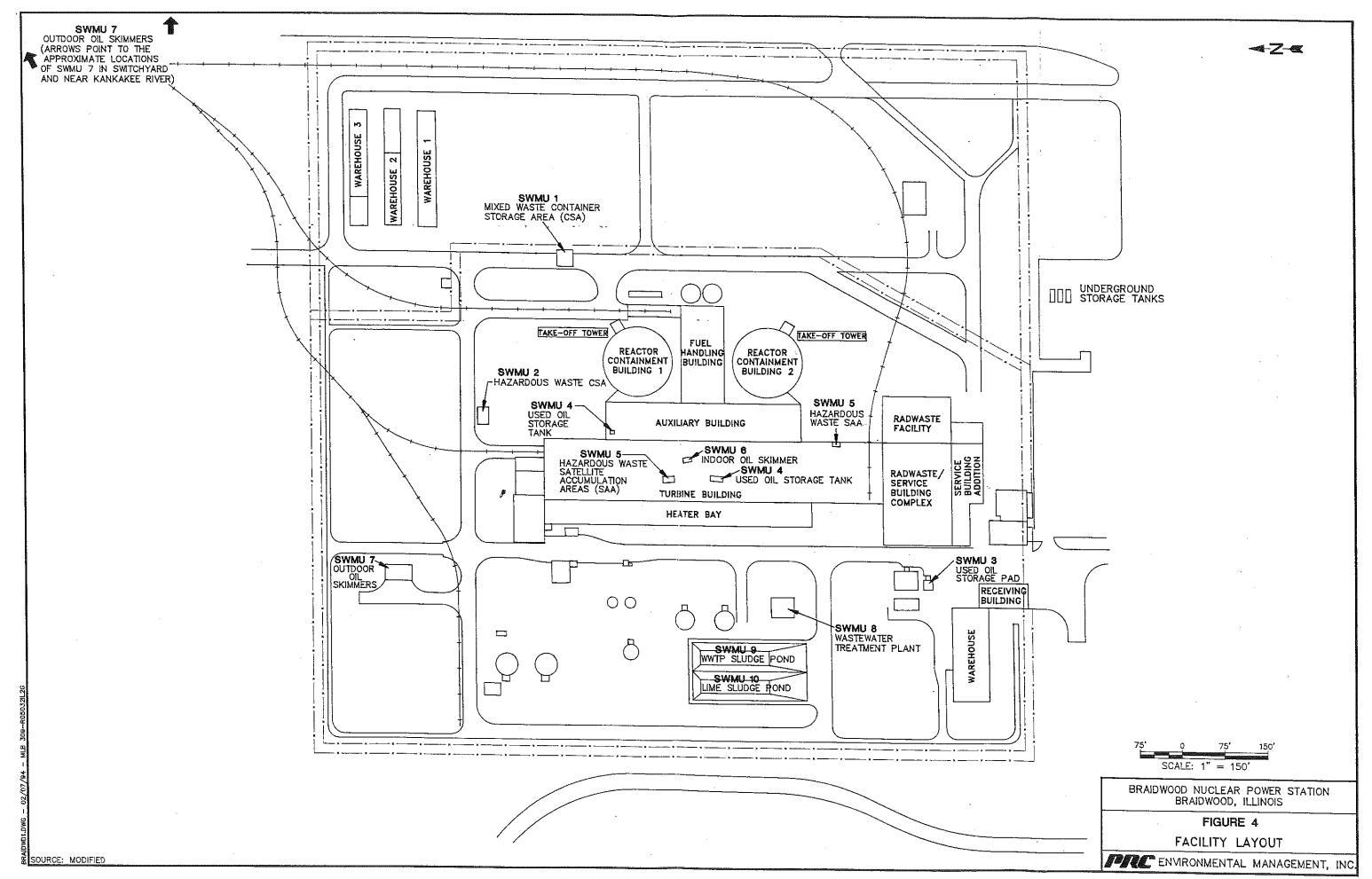


TABLE 2

SOLID WASTES

20	JLID WASTES	Calid Wasts	
Waste/EPA Waste Code*	Source	Solid Waste <u>Management Unitb</u>	
Mixed waste/F001°	Former parts cleaning equipment	1	
Waste petroleum naphtha/D001, D018, and D039°	Maintenance operations	None	
Waste monoethanolamine/D007, D008, D018, D021, D027, D039, and D040°	Maintenance operations	None	
Spent chlorinated solvents/F002 and F003	Maintenance operations	2 and 5	
Spent nonchlorinated solvents/D001, D018, and D039	Maintenance operations	2 and 5	
Freon-contaminated oil and water/F002 and F003	Maintenance operations	2 and 5	
Nonroutine wastes/various waste codes	Maintenance and laboratory operations and inventory control	2	
Spent resins/NA	Water treatment	2	
Spent charcoal/NA	Wastewater treatment	2	
Waste grease/NA	Tendon maintenance	2	
Spent mineral spirits/NA	Maintenance operations	None	
Used oil/NA	Maintenance operations and oil skimming	3, 4, 6, 7, and 8	
Lime sludge/NA	Water treatment	10	
Wastewater treatment plant sludge/NA	Wastewater treatment	ment 9	
Wastewaters/NA	Facility operations	8	
b "None" indicates that	designates nonhazardous waste. t the waste stream is not managed on si ger generated at the facility.	te.	

waste remains on site in the Mixed Waste Container Storage Area (CSA) (SWMU 1). This waste has been stored for greater than 90 days.

Waste petroleum naphtha (D001, D018 and D039) was generated by parts washers located throughout the facility. The Braidwood facility has three parts washers that are used regularly. Additional parts washers are rented by the facility when needed, especially during outages. Until October 1993, the facility's part washers were serviced by the Safety-Kleen Corporation (SK) of Elgin, Illinois (EPA ID No. ILD 000 805 911). The parts washers are now serviced by Solvent System Corporation (SSC) of Elgin, Illinois (EPA ID No. ILD 984 832 006), and by Solar Environmental, Inc. (SEI), of Huntington, Indiana (EPA ID No. IND 984 899 740). Because SSC and SEI use nonhazardous mineral spirit in their parts washers, waste petroleum naphtha (D001, D018, and D039) is no longer generated at the facility. The facility generated 1,406 gallons of waste petroleum naphtha in 1993. Because this waste was shipped off site directly from the parts washers, it was not managed on site.

Waste monoethanolamine (D007, D008, D018, D021, D027, D039, and D040) was generated by parts washers that are located throughout the facility and were serviced by SK until October 1993. This waste is no longer generated at the facility because the facility's parts washers are now serviced by SSC and SEI, who use nonhazardous mineral spirit in their parts washers. The facility generated 130 gallons of waste monoethanolamine (D007, D008, D018, D021, D027, D039, and D040) in 1993. Because this waste was shipped off site directly from the parts washers, it was not managed on site.

Spent chlorinated solvents (F002 and F003) are generated during equipment cleaning and maintenance activities at the facility. This waste is accumulated in a 55-gallon drum at the Hazardous Waste SAAs (SWMU 5). When full, the drum is transferred to the Hazardous Waste CSA (SWMU 2) for less than 90-day storage. This waste is transported off site by SET Environmental, Inc. (SET), of Wheeling, Illinois (EPA ID No. ILD 981 957 236) to Treatment One of Houston, Texas (EPA ID No. TXD 055 135 388). Braidwood generated 110 gallons of this waste in 1993.

Spent nonchlorinated solvents (D001, D018, and D039) are generated during equipment cleaning and maintenance activities at the facility. This waste is accumulated in a 55-gallon drum at the Hazardous Waste SAAs (SWMU 5). This waste began to be generated in October 1993, and, by the time of the

VSI, the facility had not generated enough waste to fill the drum. Therefore, the generation rate for this waste is not known. According to facility representatives, when full, the drum will be transferred to the Hazardous Waste CSA (SWMU 2) for less than 90-day storage.

Freon-contaminated oil and water (F002 and F003) is generated during equipment maintenance. This waste is accumulated in a 55-gallon drum at the Hazardous Waste SAAs (SWMU 5). When full, the drum is transferred to the Hazardous Waste CSA (SWMU 2) for less than 90-day storage. SET transports this waste to Treatment One. The facility generated 165 gallons of this waste in 1993.

Nonroutine hazardous wastes with various waste codes are generated at the Braidwood facility during maintenance activities and chemical inventory control, which involves disposing of outdated products. These wastes are stored in 55-gallon drums or in containers of various sizes and types that are lab-packed. Both drummed wastes and lab-packed wastes are stored at the Hazardous Waste CSA (SWMU 2) for less than 90 days. SET transports these wastes off site to various facilities including Treatment One; Petrochem Processing (Petrochem) in Detroit, Michigan (EPA ID No. MID 980 615 298); and Bethelehum Apparatus Co. of Hellerton, Pennsylvania (EPA ID No. PAD 002 390 961). Because these wastes are nonroutine, the generation rates vary.

Spent resins (nonhazardous) are generated during water treatment at the facility. This waste is stored in metal containers at the Hazardous Waste CSA (SWMU 2) until shipped off site. SEI; Mr. Frank, Inc., of Illinois (EPA ID No. ILD 984 775 049) (Mr. Frank); and Clean Harbors Environmental Services of Massachusset (EPA ID No. MAD 039 322 250) transport this waste off site to Land & Lakes (L&L) landfill in Chicago, Illinois (IEPA ID No. 0316000034). The facility generated 64 cubic yards of this waste in 1993.

Spent charcoal (nonhazardous) is generated during wastewater treatment at the facility. This waste is stored in 55-gallon drums at the Hazardous Waste CSA (SWMU 2) until shipped off site. This waste is transported off site by one of the special waste transporters such as Mr. Frank to L&L landfill for disposal. The facility generated about 30 cubic yards of this waste in 1993.

Waste grease (nonhazardous) is generated during maintenance of tendons in the facility's reactor containment building. This waste is stored in 55-gallon drums at the Hazardous Waste CSA

(SWMU 2) until being shipped off site. SET transports this waste to Petrochem. The facility generated 275 gallons of this waste in 1993.

Spent mineral spirit (nonhazardous) is generated by parts washers located throughout the facility. The part washers are serviced by SSC and SEI, who ship this waste directly to Great Northern Processing (GNP) of Huntington, Indiana (EPA ID No. IND 984 900 209). Therefore, this waste is not managed on site. The facility generated 40 gallons of this waste in 1993.

Used oil (nonhazardous) is generated by equipment maintenance activities, by the facility's Indoor and Outdoor Oil Skimmers (SWMUs 6 and 7), and by the WWTP (SWMUs). Used oil generated during equipment maintenance is stored in 55-gallon drums at the Used Oil Storage Pad (SWMUs) or in the Used Oil Storage Tank (SWMUs) until being shipped off site. Used oil generated by oil skimming at the Indoor Oil Skimmer (SWMUs) is accumulated in a 55-gallon drum that is transferred to the Used Oil Storage Pad (SWMUs) for storage until shipped off site. Used oil from the WWTP (SWMUs) is stored in a 1,000-gallon AST at the WWTP (SWMUs) until being shipped off site. Used oil generated by the Outdoor Oil Skimmers (SWMUs) is transferred directly to an oil tanker used by SEI, who transports all used oil from the facility to GNP. The facility generated 1,193 gallons of used oil in 1993.

Lime sludge (nonhazardous) is generated during water treatment at the facility. This waste is accumulated in the 500,000-gallon Lime Sludge Pond (SWMU 10). Lime sludge from the pond is transported off site for land application at CECO's farms. Lime sludge is applied to the land under two IEPA land application permits discussed in Section 2.5. The generation rate of lime sludge is not monitored.

The WWTP sludge (nonhazardous) is generated during wastewater treatment at the WWTP (SWMU 8). This waste is accumulated in the 500,000-gallon WWTP Sludge Pond (SWMU 9). WWTP sludge has never been removed from the WWTP Sludge Pond (SWMU 9) for off site shipment because the facility has not yet accumulated enough of this waste to require its shipment off site.

The Braidwood facility also generates wastewaters that are managed by the WWTP (SWMU 8) and the Indoor Oil Skimmer (SWMU 6), and stormwater that is managed by the Outdoor Oil Skimmers (SWMU 7). Wastewaters managed by SWMUs 6 and 8 come from (1) floor drains located in the turbine building, (2) equipment drains, and (3) auxiliary boiler blowdown. These wastewaters and stormwater are not characterized prior to treatment; however, the discharge from SWMUs 7 and 8 is regulated under the facility's National Pollutant Discharge Elimination System (NPDES) permits discussed in Section 2.5.

2.4 HISTORY OF DOCUMENTED RELEASES

This section discusses the history of documented releases to groundwater and on-site soils at the Braidwood facility. The discussion below is based on information provided by Braidwood facility representatives during the VSI (CECO 1994). PRC did not note any additional releases to groundwater, surface water, air, or on-site soils during its review of EPA and IEPA files. Moreover, PRC found no documentation indicating that further action was required for the incidents discussed below.

Approximately 8,000 gallons of Diesel Fuel Oil No. 2 were released to on-site soil between approximately October 24, 1990, and December 19, 1990. The release occurred from a damaged diesel oil pipe located about 1 to 2 feet above a storm sewer that discharges to the Outdoor Oil Skimmers (SWMU 7) located in the northeastern quadrangle of the facility. About 7,750 gallons of the diesel fuel was recovered from SWMU 7 by January 12, 1991. About 275 cubic yards of soil contaminated by diesel fuel was excavated and disposed of at the L&L landfill in Chicago, Illinois. Groundwater at the Braidwood facility was monitored until December 1992 when groundwater contamination was detected to be below Class II groundwater standards. The facility reported this release, its associated cleanup activities, and the results of groundwater monitoring to IEPA (CECO 1991a, 1991b, and 1992).

2.5 REGULATORY HISTORY

In August 1980, the Braidwood facility filed a Notification of Hazardous Waste Activity form as a generator and treatment, storage, or disposal (TSD) facility and was assigned EPA Identification

Number ILD 000 806 505. The notification listed F001 and F002 waste codes (CECO 1980). In October 1982, the facility informed EPA that this notification was erroneously filed and that the facility will not be submitting a Part A permit application because it is not a TSD facility (CECO 1982).

However, in October 1990, the facility filed a Part A permit application that listed the process code for a container storage unit (S01) with a capacity of 2,200 gallons (CECO 1990). The S01 process code referred to the facility's Mixed Waste CSA (SWMU 1). At the time of the VSI, the Braidwood facility had not submitted a Part B permit application for SWMU 1 and was operating as an interim status TSD facility.

Limited information about RCRA compliance evaluation inspections (CEI) at the facility is available in EPA and IEPA files. During its review of these files, PRC found no documentation of outstanding RCRA CEI issues at the facility.

The Braidwood facility has three air permits, one NPDES permit, and three land application permits that are discussed below.

The facility has air permits for its radioactive waste volume reduction system, auxiliary boilers and various storage tanks, and for open burning of materials for firefighting training. The permit for the radioactive waste volume reduction system (Application No. 82110055; ID No. 197816AAB BRDWVRS) regulates the operation of a fluidized bed dryer and a fluidized bed dry waste incinerator. According to facility representatives, the fluidized bed dryer and incinerator have only been operated for a total of 2 weeks, on two different occasions, for testing with noncontaminated materials. The dryer and incinerator are not currently used because their operation is not cost-effective (PRC 1994a). This permit was reissued on February 21, 1992, and will expire on March 4, 1997 (IEPA 1992a). Fluidized bed dryer and dry waste incinerator are not considered a SWMU in this report because they manage only radioactive waste, which is regulated by NRC.

The air permit for the auxiliary boilers and storage tanks (Application No. 79020011; ID No. 197816AAB) regulates the operation of two Fuel Oil No. 2-fired auxiliary boilers; four diesel-fired generators; seven storage tanks used to store Fuel Oil No. 2, four storage tanks used to store turbine

oil, one storage tank used to store diesel fuel, and two storage tanks used to store gasoline; and one lime silo with a baghouse filter. This permit was issued on May 28, 1992, and will expire on September 7, 1994 (IEPA 1992b).

The air permit for open burning (Application No. B9307018; ID No. 197816) regulates open burning of 350 gallons of gasoline, 150 pounds of propane, 250 gallons of Distillate Oil No. 2, 350 pounds of wood and straw, and 100 pounds of paper per session of firefighting training. This permit was issued on October 18, 1993, and will expire on October 2, 1994 (IEPA 1993b).

PRC found no documentation of noise or odor complaints from area residents.

The Braidwood facility's IEPA NPDES permit (IL0048321) regulates the discharge of facility's effluent waters to the Kankakee and Mazon rivers. This permit was issued on January 29, 1991; and will expire on September 1, 1995 (IEPA 1991a). The facility's NPDES discharges to the Kankakee and Mazon Rivers are summarized below.

DISCHARGE NUMBER	DISCHARGE NAME	RECEIVING RIVER	
001	Cooling Pond Blowdown Line		
001(a)	001(a) WWTP Effluent		
001(b)	Sewage Treatment Plant Effluent	Vantakaa	
001(c)	Radioactive Waste Treatment System Effluent	ffluent Kankakee	
001(d) Demineralizer Regenerant Waste			
001(e) Intake Screen Backwash			
002 North Site Stormwater Runoff Basin		Mazon	
003	outh Site Stormwater Runoff Basin		

According to the NPDES permit, the discharge from Cooling Pond Blowdown Line [Discharge No. (DN) 001) is to be monitored daily for temperature, once in a week for pH, and twice in a month for total residual chlorine. The discharge of WWTP Effluent [DN 001(a)], and from Radioactive Waste Treatment System Effluent [DN 001(c)] and North Site Stormwater Runoff Basin (DN 002) is to be

monitored weekly for total suspended solids (TSS) and oil and grease. The discharge of Sewage Treatment Plant Effluent [DN 001 (b)] is to be monitored weekly for TSS, biochemical oxygen demand for five days, and fecal coliform. The discharge from Demineralizer Regenerant Waste [DN 001(d)] is to be monitored weekly for TSS.

During its file review, PRC identified no documentation of outstanding NPDES compliance issues.

The land application permits regulate the disposal of sewage and lime sludge from the facility. Land Application Permit No. 1991-SC-4184 regulates the annual application of up to 8 dry tons of aerobically digested sewage sludge to 8 acres of land. This permit was renewed on December 13, 1991, and will expire on November 1, 1996 (IEPA 1991b). Farms used for land application under this permit are not considered a SWMU in this report because they are outside the facility boundaries.

Land Application Permit No. 1992-SC-1078 regulates the annual application of up to 1 dry ton of water treatment plant lime sludge to 64 acres of land. This permit was issued on August 14, 1992, and will expire on August 1, 1997 (IEPA 1992c). Farms used for land application under this permit are not considered a SWMU in this report because they are outside the facility boundaries.

Land Application Permit No. 1992-SC-1078-1 regulates the application of up to 4 tons of water treatment plant lime sludge per acre per year. This permit was issued on October 14, 1993, and will expire on August 1, 1997 (IEPA 1993a).

The Braidwood facility operates three 10,000-gallon, fiberglass-reinforced USTs. These USTs store diesel fuel, unleaded gasoline, and leaded gasoline. According to facility representatives, all three USTs passed the leak test conducted in 1993 and will be upgraded in 1998.

PRC found no documentation of CERLCA (Superfund) activities at the Braidwood facility.

2.6 ENVIRONMENTAL SETTING

This section describes the climate; flood plain and surface water; geology and soils; and groundwater in the vicinity of the facility.

2.6.1 Climate

The climate in Will County is typically continental with cold winters, warm summers, and frequent short periods of fluctuations in temperature, humidity, cloudiness, and wind direction. The average daily temperature is 50.9 °F. The lowest average daily temperature is 23.8 °F in January. The highest average daily temperature is 74.0 °F in July (Ruffner 1978).

The total annual precipitation for the Braidwood facility area is between 34 and 35 inches. The mean annual lake evaporation for the area is about 31 inches. The net annual precipitation is 28.4 inches. The 1-year, 24-hour maximum rainfall is 6.7 inches (Ruffner 1978).

The prevailing wind direction is from the west. Average wind speed is highest in March at 11.8 miles per hour. The average wind speed is 10.3 miles per hour from a westerly direction (Ruffner 1978).

2.6.2 Flood Plain and Surface Water

The Braidwood facility is not located within a 100-year flood plain (PRC 1994b). The nearest surface water body is the facility's main cooling pond (see Figure 3). This on-site pond occupies 2,537 acres and is used for supplying cooling water to the facility. The pond is also used for public recreation under the control of the Illinois Department of Conservation. The Kankakee River, located 3 miles east of the facility, receives treated wastewaters discharged from the facility and supplies makeup water to the facility. This river is also used as a drinking water supply for the town of Wilmington, located about 3 miles downstream and north of the facility's outfall locations. The Kankakee River also receives discharge from Horse Creek, which is located about 3 miles east of the facility. The Mazon River, located about 1 mile southwest of the facility, receives discharges from the facility's Outdoor Oil Skimmers (SWMU 7) and from Granary, Crane, Reddick Run, and East Fork Creeks,

which are located south of the facility. The Mazon River is used for recreational purposes and discharges to the Illinois River. In addition, there are several ponds near the facility (USGS 1980).

2.6.3 Geology and Soils

The Braidwood facility is located within the Kankakee Plain portion of the Till Plains section of the Central Lowlands Province. This section is characterized by widespread, variable deposits of glacial till, outwash, and lacustrine sediments assigned to the Wisconsinan, Illinoian, Kansan, and Nebraskan glacial deposits (CECO 1994).

The majority of the unconsolidated drift in the Braidwood area was deposited during the Wisconsinan Glaciation period of the Woodfordian Age. The Dolton Member of the Equality Formation serves as glacial veneer covering most of the Braidwood area. The Equality Formation averages approximately 45 feet thick in the local area and may be as much as 100 feet thick in some buried valleys. The Dolton Member mainly consists of sands with local beds of silt and gravel, most of which was deposited as beaches and bars. These sands are mainly medium grained and poorly sorted and contain a minor silt component. These sands eventually contain more silt where they grade with the Camri Member. Underlying these coarse grained deposits, where present, is the Wedron Formation of clay tills. Where the Wedron is not present, the underlying Pennsylvanian bedrock is exposed (PESI 1991).

Strip mining activities throughout the Braidwood area have exposed the Pennsylvanian System, which consists of coal formations and, more specifically, Cyclothem Sequences. The Cyclothems consist of alternating nonmarine and marine sequences (silt, sandstone, and limestone) deposited as the sea levels fluctuated during Pennsylvanian time (PESI 1991).

Surface soil types present in the Braidwood area are the Watseka loamy fine sand (Unit No. 49), the Bloomfield fine sand (Unit No. 53), the Plainfield sand (Unit No. 54), the Maumee fine sandy loam (Unit No. 89), the Ade loamy fine sand (Unit No. 98), the Pittwood fine sandy loam (Unit No. 130), and the Canisteo loam (Unit No. 347). The prime farmland soils of the Braidwood area include the Maumee fine sandy loam, the Pittwood fine sandy loam, and the Canisteo loam (CECO 1994).

2.6.4 Groundwater

The Braidwood area has two primary aquifer systems: the upper Pennsylvanian sandstone, limestone, and dolomite bedrock aquifers, and the deeper Ordovician limestone and dolomite bedrock aquifer. In addition, a shallow sand aquifer is present in the Braidwood facility area. The depth to the Pennsylvanian bedrock aquifer is about 44 feet, to the Cambro-Ordovician sequence is about 300 feet, and to the shallow sand aquifer is about 20 feet deep (PESI 1991).

Groundwater in the shallow aquifer occurs under water table conditions, which is recharged locally by precipitation. Groundwater from the shallow aquifer is discharged into local surface streams and strip mine pits, to the underlying bedrock, and to pumping wells. Well yields from this aquifer are in the range of 2 to 5 gpm, which is a rate suitable for domestic or farm use only.

The area surrounding the Braidwood facility recharges the shallow aquifer; therefore, the groundwater flows radially in all directions. Only two registered domestic wells are present within 1.5 miles of the facility and both wells obtained their water supply from the Pennsylvanian Sandstone aquifer. The town of Braidwood, approximately 1.5 miles north of the facility, uses groundwater as its water supply. CECO has an on-site industrial well located in the northern part of the facility. This well is currently not used (PESI 1991).

A cement-bentonite slurry trench has been installed around the Braidwood facility, through surface fill, the Parkland sand, and the Equality Formation. This trench is anchored 2 feet into the silty clay glacial till of the Wedron Formation, where present, otherwise it is set 2 feet into the bedrock. This cement bentonite slurry trench creates a subsurface hydraulic barrier to groundwater movement in the shallow aquifer (PESI 1991).

2.7 RECEPTORS

Braidwood facility's 2,537-acre main cooling pond is the nearest surface water body. This pond is used to supply cooling water to the facility. The pond is also used for recreational purposes. The facility obtains its drinking water and makeup water supply from the Kankakee River. Effluent from the facility's WWTP is discharged to the Kankakee river at a location about 3 miles east of the

facility. The town of Wilmington, located about 3 miles downstream and north of the facility, obtains its drinking water from the Kankakee River.

Groundwater in the shallow aquifer flows radially away from the site. However, the movement of groundwater from the facility area is restricted by a cement bentonite slurry surrounding the facility. Groundwater from the shallow aquifer is not used as drinking water supply in the immediate vicinity of the facility. The town of Braidwood, located about 1.5 miles north of the facility, uses groundwater as its primary source of drinking water.

The nearest residences are located within 0.25 mile of the northeastern corner of the facility, in the village of Godley. The town of Braidwood is about 1.5 miles north of the facility. However, the distances of these residences are more than 0.5 to 2 miles from the active structures of the facility (USGS 1980).

Facility access is tightly restricted. The main buildings are located within a "protected area" surrounded by a double-fenced, 35-foot isolation zone that is monitored by surveillance cameras. Access to areas within the protected area that contain equipment essential to safe plant operation is controlled by security doors. Security badges or key cards are used to grant access to various locations within the plant. Additionally, the responsibilities of an on-site security staff include the following: conducting routine patrols, controlling access of personnel and vehicles to the protected area, performing delivery and pick-up escort duties, monitoring security console activities, and responding to security alarms (CECO 1994).

Wetland areas of Lacustrine, Palustrine, and Riverine systems are located on and near the facility property. Lacustrine wetlands are of Limnetic subsystem and Unconsolidated Bottom (UB) class, and occupy areas smaller and greater than 2 acres. Palustrine wetlands are of UB, Emergent, and Forested classes and occupy areas smaller and greater than 2 acres. Riverine wetlands are of Lower Perennial subsystem and UB class and mostly occupy areas smaller than 2 acres (USDI 1981).

3.0 SOLID WASTE MANAGEMENT UNITS

This section describes the 10 SWMUs identified during the PA/VSI. The following information is presented for each SWMU: description of the unit, dates of operation, wastes managed, release controls, history of documented releases, and PRC's observations. Figure 4 shows the SWMU locations.

SWMU 1

Mixed Waste CSA

Unit Description:

This unit manages closed containers of waste in a concrete storage building that is located in the northwestern quadrangle of the facility. The storage building measures about 35 feet wide by 35 feet deep by 8.5 feet high. The building is steel framed and has reinforced concrete masonry walls, precast concrete roof panels, and an 8-inch-thick concrete floor that is covered with impervious polyacrylate terrazzo.

Date of Startup:

This unit began operation in October 1990.

Date of Closure:

This unit is currently active for greater than 90-day storage of mixed waste.

Wastes Managed:

This unit manages mixed waste (F001). According to facility representatives, mixed waste (F001) is no longer generated at the Braidwood facility. However, because of the difficulties associated with shipping mixed waste to an appropriate disposal facility, this waste remains on site and has been stored for greater than 90 days.

Release Controls:

Waste in two closed 55-gallon drums is stored in secondary containers of polyethylene. The secondary containers have (1) sliding, two-part cover to provide safe access to drums; (2) waterproof closure by having "over-snap" lids to prevent entry of rainwater; and

(3) translucent side walls to allow visual detection of a leak without removing the lids. The secondary containers are surrounded by absorbent booms and are stored in a concrete building that has no drain.

Observations:

PRC observed the area inside and outside the concrete building at this unit. Out of three secondary containers stored at the unit, only two had mixed waste (F001) in closed drums. According to facility representatives, one drum was full and the other was partially full. Total volume of mixed waste in both drums was about 85 gallons. No evidence of release was noted (see Photographs No. 1 and 2).

SWMU 2

Hazardous Waste CSA

Unit Description:

This unit manages closed containers of hazardous and nonhazardous wastes in a storage building that is located in northern part of the facility. The storage building measures about 50 feet wide by 30 feet deep by 10 feet high. The building is wood framed and has a concrete floor, a 6-inch-high concrete berm, and two entrances with ramps over the berm. Before the startup of this unit, hazardous waste was generated only because of inventory control and was not managed on site (PRC 1994c).

Date of Startup:

This unit began operation in August 1989.

Date of Closure:

This unit is currently active for less than 90-day storage of hazardous waste and for storage of nonhazardous waste.

Wastes Managed:

This unit manages hazardous and nonhazardous wastes. Hazardous wastes managed at this unit include spent chlorinated solvents (F002 and F003), spent nonchlorinated solvents (D001, D018, and D039), freon contaminated oil and water (F002 and F003), and nonroutine

wastes (various waste codes). Nonhazardous wastes managed at this unit include spent resins, spent charcoal, and waste grease.

Release Controls:

Waste at this unit is managed in closed 55-gallon drums that are stored on a concrete floor with a berm and no drain. The unit has ramps over the berm. Absorbent material, spill control booms, and overpacks are present at the unit.

History of

Documented Releases:

No releases from this unit have been documented.

Observations:

PRC observed the area inside and outside the building at this unit. At the time of VSI, one 55-gallon drum each of waste fryquel (nonhazardous), waste grease (nonhazardous), and spent charcoal (nonhazardous) was stored at this unit. No evidence of release was noted (see Photograph Nos. 3 and 4).

SWMU 3

Used Oil Storage Pad

Unit Description:

This unit consists of an outdoor, uncovered, approximately 20-foot by 20-foot concrete area located southwest of the facility's turbine building. The concrete unit has a berm and a ramp over the berm at the entrance. A drain in the unit leads to one of the Outdoor Oil Skimmers (SWMU 7). This unit is surrounded by a 6-foot-high, chain-link fence and has a locked door.

Date of Startup:

This unit began operation in February 1986.

Date of Closure:

This unit is currently active.

Wastes Managed:

This unit manages nonhazardous used oil in 55-gallon steel drums before off-site shipment.

Release Controls:

Waste at this unit is managed in closed 55-gallon drums that are stored on a concrete floor with a berm. A drain in the floor leads to one of the Outdoor Oil Skimmers (SWMU 7) located in the northeastern quadrangle of the facility.

History of

Documented Releases:

No releases from this unit have been documented.

Observations:

PRC observed that four drums of nonhazardous waste oil and several empty drums were stored in this unit. Much of the concrete pad and surrounding area was covered with snow. No evidence of release was noted (see Photograph No. 5).

SWMU 4

Used Oil Storage Tank

Unit Description:

This unit is a 1,000-gallon, steel AST located at level 601 in approximately the middle of the turbine building. The AST is located over a concrete floor that has a concrete berm and a drain. The drain in the concrete floor leads to the floor drain system in the turbine building.

Date of Startup:

This unit began operation in February 1986.

Date of Closure:

This unit is currently active.

Wastes Managed:

This unit manages nonhazardous used oil.

Release Controls:

The 1,000-gallon, steel AST is located indoors on a bermed concrete floor. The drain in the concrete floor leads to the floor drain system in the turbine building. All the wastewater from this floor drain system is treated in the WWTP (SWMU 8).

History of

Documented Releases:

No releases from this unit have been documented.

Observations:

PRC observed the general area of this unit. No evidence of release

was noted (see Photograph No. 6).

SWMU 5

Hazardous Waste SAAs

Unit Description:

This unit consists of four SAAs. Each SAA occupies an area of about 3 feet by 3 feet and is used to accumulate up to 55 gallons of hazardous waste in a steel drum. The drums are stored inside closed metal cabinets. The SAAs are located indoors on a concrete floor. The steel drums are closed when not receiving wastes. The metal cabinets are equipped with spill containment pans. At the time of the VSI, SAAs were located on level 601 of the turbine building. A

Date of Startup:

This unit began operation in August 1988.

Date of Closure:

This unit is currently active for accumulation of hazardous wastes.

metal cabinet at one of the SAAs stored spill control materials.

Wastes Managed:

This unit manages spent chlorinated solvents (F002 and F003), spent nonchlorinated solvents (D001, D018, and D039), and freoncontaminated oil and water (F003 and F003).

Release Controls:

Waste at this unit is managed in closed 55-gallon drums that are stored in closed metal cabinets which are equipped with spill containment pans. One of the metal cabinets stores spill control material. Floor drains in the area of this unit lead to the floor drain system in the turbine building.

History of

Documented Releases:

No releases from this unit have been documented.

Observations:

PRC observed the area of SAAs. No evidence of release was noted

(see Photograph Nos. 7 and 8).

SWMU 6

Indoor Oil Skimmer

Unit Description:

This unit has an oil and water separator located at level 569 near the center of the turbine building. The unit is mounted on a metal frame about 5-feet-tall and located on a concrete floor. The unit uses a tygon tube to separate oil and wastewater from the floor drain system in the turbine building. Separated oil is accumulated in a 55-gallon

steel drum.

Date of Startup:

This unit began operation in February 1986.

Date of Closure:

This unit is currently active.

Wastes Managed:

This unit manages wastewater and nonhazardous used oil from the

floor drain system in the turbine building.

Release Controls:

Waste is accumulated in a 55-gallon drum stored on a concrete floor. When full, the drum is transferred to the Used Oil Storage Pad (SWMU 3). The drains in the concrete floor lead to the WWTP (SWMU 8).

History of

Documented Releases:

No releases from this unit have been documented.

Observations:

PRC observed the general area of this unit. At the time of VSI, there were two oil and water separators at this unit. According to facility representatives, the older oil and water separator was being replaced with the new one. No evidence of release was noted (see Photograph No. 9).

Outdoor Oil Skimmers

Unit Description:

This unit consists of three concrete oil and water separators: one located near the northwest side of the turbine building, one in the switchyard northeast of the facility, and one near the water intake from the Kankakee River. All three oil and water separators are buried below grade and have an oil accumulation chamber and a pump for pumping oil to tankers used to ship the oil off site. The outside dimension of the oil and water separator located near the northwest side of the turbine building are approximately 59 feet by 31.5 feet by 12 feet. The outside dimensions of the other two oil and water separators are approximately 19 feet by 12 feet.

Date of Startup:

This unit began operation in early 1983.

Date of Closure:

This unit is currently active.

Wastes Managed:

This unit manages stormwater and nonhazardous used oil.

Release Controls:

This unit is located below grade and is constructed of concrete. The level of oil accumulated within the oil accumulation chamber is measured monthly. Oil is transported off site when its depth in the oil accumulation chamber reaches 6 inches. The unit has no other form of release controls.

History of

Documented Releases:

No releases from this unit have been documented.

Observations:

PRC observed the aboveground portions of this unit, which were covered with snow. No evidence of release was noted (see Photograph No. 10).

WWTP

Unit Description:

This unit is located indoors in a dedicated building in the southeastern quadrangle of the facility. Major components of this unit include: a concrete, flow equalization tank; an oil and water separator; a used oil accumulation AST; a quadricell for flocculation; two charcoal filters; and an effluent storage tank. Sludge generated during wastewater treatment at this unit is managed in the WWTP Sludge Pond (SWMU 9).

Date of Startup:

This unit began operation in August 1985.

Date of Closure:

This unit is currently active.

Wastes Managed:

This unit manages wastewaters from equipment and floor drains in the turbine building. These wastewaters are not characterized prior to treatment; however, the discharge from this unit (SWMU 8) is regulated under the facility's NPDES permit (see Section 2.5).

Release Controls:

The components of this unit are located indoors on a concrete floor.

History of

Documented Releases:

No releases from this unit have been documented.

Observations:

PRC observed the various components of this unit and noted that the interior of the building housing this unit was extremely clean. No evidence of release was noted (see Photographs No. 11 and 12).

SWMU 9

WWTP Sludge Pond

Unit Description:

This unit is an approximately 35 feet long, 175 feet wide, and 7 feet deep, clay-lined, 500,000-gallon pond. The pond is located west of

the turbine building and adjacent to the Lime Sludge Pond (SWMU 10).

Date of Startup:

This unit began operation in August 1985.

Date of Closure:

This unit is currently active.

Wastes Managed:

This unit manages nonhazardous sludge from the WWTP (SWMU 8).

Release Controls:

Waste is stored in a clay-lined pond. No other form of release

controls are present.

History of

Documented Releases:

No releases from this unit have been documented.

Observations:

PRC observed the pond and its surrounding area. Most of the pond

was frozen and covered with snow. No evidence of release was noted

(see Photograph No. 13).

SWMU 10

Lime Sludge Pond

Unit Description:

This unit is an approximately 35 feet long, 175 feet wide, and 7 feet deep, clay-lined, 500,000-gallon pond. The pond is located west of

the turbine building and the WWTP Sludge Pond (SWMU 9).

Date of Startup:

This unit began operation in mid 1983.

Date of Closure:

This unit is currently active.

Wastes Managed:

This unit manages nonhazardous lime sludge generated during water

treatment at the facility.

Release Controls:

Waste is stored in a clay-lined pond. No other form of release

controls is present.

History of

Documented Releases:

No releases from this unit have been documented.

Observations:

PRC observed the pond and its surrounding area. Most of the pond was frozen and covered with snow. No evidence of release was noted (see Photograph No. 14).

4.0 AREAS OF CONCERN

PRC identified no AOCs during the PA/VSI.

CONCLUSIONS AND RECOMMENDATIONS 5.0

The PA/VSI identified 10 SWMUs and no AOCs at the Braidwood facility. Background information on the facility's location; operations; waste generating processes and waste management practices; history of documented releases; regulatory history; environmental setting; and receptors is presented in Section 2.0. SWMU-specific information, such as the unit's description, dates of operation, wastes managed, release controls, history of documented releases, and observed condition, is presented in Section 3.0. Following are PRC's conclusions and recommendations for each SWMU. Table 3, located at the end of this section, summarizes the SWMUs at the facility and the recommended further actions.

SWMU 1

Mixed Waste CSA

Conclusions:

This unit manages mixed waste in closed 55-gallon drums that are inside polyethylene secondary containers. The secondary containers are surrounded by spill control booms and are stored inside a concrete building that has no drain. The building itself is located outdoors. No releases from this unit have been documented. The potential for release to all environmental media is low.

Recommendations:

PRC recommends no further action at this time.

SWMU 2

Hazardous Waste CSA

Conclusions:

This unit manages closed containers of hazardous and nonhazardous wastes inside a storage building. The building is located outdoors, has a concrete floor, a 6-inch-high concrete berm, a ramp over the berm at the building entrances, and no drain. No releases from this unit have been documented.

The potential for release to all environmental media is low.

Recommendations:

PRC recommends no further action at this time.

Used Oil Storage Pad

Conclusions:

This outdoor unit manages closed containers of nonhazardous used oil on a concrete pad. The pad is surrounded by a concrete berm. The drain in the floor leads to one of the Outdoor Oil Skimmers (SWMU 7) located in the northeast quadrangle of the facility. No releases from this unit have been documented. The potential for release to all environmental media is low.

Recommendations:

PRC recommends no further action at this time.

SWMU 4

Used Oil Storage Tank

Conclusions:

This indoor unit manages nonhazardous used oil. The unit has a concrete floor, a concrete berm, and a drain that leads to the floor drain system in the turbine building. Wastewater from this floor drain system is treated in WWTP (SWMU 8). No releases from this unit have been documented. The potential for release to all environmental media is low.

Recommendations:

PRC recommends no further action at this time.

SWMU 5

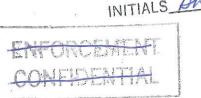
Hazardous Waste SAAs

Conclusions:

Each SAA constituting this unit accumulates up to 55-gallons of hazardous wastes in closed containers located indoors on a concrete floor. Containers of waste are stored inside closed, metal cabinets that have a spill collection pan. No releases from this unit have been documented. The potential for release to all environmental media is low.

Recommendations:

PRC recommends no further action at this time.



Indoor Oil Skimmer

Conclusions:

This indoor unit manages nonhazardous used oil in a 55-gallon drum. The drum is located on a concrete floor and is transferred to the Used Oil Storage Pad (SWMU 3) when full. No releases from this unit have been documented.

The potential for release to all environmental media is low.

Recommendations:

PRC recommends no further action at this time.

SWMU 7

Outdoor Oil Skimmers

Conclusions:

The Outdoor Oil Skimmers are located below grade and are constructed of concrete. This unit manages stormwater runoff. Discharge from the unit is regulated under an NPDES permit; no outstanding NPDES compliance issues were identified during the PA/VSI. No releases from this unit have been documented. The potential for release to all environmental media is low.

Recommendations:

PRC recommends no further action at this time.

SWMU 8

WWTP

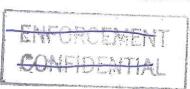
Conclusions:

All elements comprising this unit are located indoors on a concrete floor. The unit discharges effluent to the Kankakee and Mazon Rivers under an NPDES permit; no outstanding NPDES compliance issues were identified during the PA/VSI. No releases from this unit have been documented. The potential for release to all environmental media is low.

Recommendations:

PRC recommends no further action at this time.

RELEASED DATE 7-14-98 RIN # INITIALS AL



WWTP Sludge Pond

Conclusions:

This unit manages nonhazardous sludge generated by the WWTP (SWMU 8). These wastes are managed in an outdoor, clay-lined pond. No releases from this unit have been documented. The potential for release to all environmental

media is low.

Recommendations:

PRC recommends no further action at this time.

SWMU 10

Lime Sludge Pond

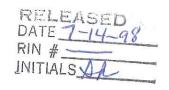
Conclusions:

This unit manages nonhazardous lime sludge generated during water treatment at the facility. This waste is managed in an outdoor, clay-lined pond. No releases from this unit have been documented. The potential for release to all environmental media is low.

Recommendations:

PRC recommends no further action at this time.





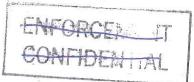


TABLE 3 SWMU SUMMARY

SWMU	Dates of Operation	Evidence of Release	Recommended Further Action
Mixed Waste CSA	October 1990 to present	None	No further action
2. Hazardous Waste CSA	August 1989 to present	None	No further action
3. Used Oil Storage Pad	February 1986 to present	None	No further action
4. Used Oil Storage Tank	February 1986 to present	None	No further action
5. Hazardous Waste SAAs	August 1988 to present	None	No further action
6. Indoor Oil Skimmer	February 1986 to present	None	No further action
7. Outdoor Oil Skimmers	Early 1983 to present	None	No further action
8. WWTP	August 1985 to present	None	No further action
9. WWTP Sludge Pond	August 1985 to present	None	No further action
10.Lime Sludge Pond	Mid 1983 to present	None	No further action

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APPENDIX A VISUAL SITE INSPECTION SUMMARY AND PHOTOGRAPHS

(12 Pages)

VISUAL SITE INSPECTION SUMMARY

COMMONWEALTH EDISON COMPANY BRAIDWOOD NUCLEAR POWER STATION BRAIDWOOD, ILLINOIS 60407 ILD 000 806 505

Date:

January 17, 1994

Primary Facility Representatives:

Joseph Tidmore, System Test Engineer

Patricia Boyle, Hazardous Materials Coordinator

Representative Telephone No.:

(815) 458-2801

Additional Facility Representatives:

David J. Miller, Technical Services Superintendent

Dough Yowell, Principal Biologist, Environmental Services Louis E. Magers, Environmental Engineer, Environmental

Services

Inspection Team:

Manoj Mishra, PRC Environmental Management, Inc. (PRC)

Cathy Collins, PRC

Photographer:

Manoi Mishra, PRC

Weather Conditions:

Sunny, snow cover, about 5°F

Summary of Activities:

The PRC inspection team arrived at the facility at 10:25 a.m. The visual site inspection (VSI) began at 10:45 a.m. with an introductory meeting. The inspection team explained the purpose of the VSI and the agenda for the visit. Facility representatives then discussed the facility's past and current operations, solid wastes generated, and release history. Facility representatives provided the inspection team with

copies of requested documents.

The VSI tour began at 2:10 p.m. At the time of the VSI, the facility was in full operation. During the tour, PRC viewed waste generation areas and the following solid waste management units (SWMU): the Mixed Waste Container Storage Area (CSA) (SWMU 1), the Hazardous Waste CSA (SWMU 2), the Used Oil Storage Pad (SWMU 3), the Used Oil Storage Tank (SWMU 4), the Hazardous Waste Satellite Accumulation Areas (SAA) (SWMU 5), the Indoor Oil Skimmer (SWMU 6), the Wastewater Treatment Plant (WWTP) (SWMU 8), the WWTP Sludge Pond (SWMU 9), and the Lime Sludge Pond (SWMU 10). PRC also viewed the area above one of the Outdoor Oil Skimmers (SWMU 7) and the farm lands where lime sludge is applied.

The tour concluded at 3:45 p.m., after which the inspection team held an exit meeting with facility representatives. The VSI was completed and the inspection team left the facility at 4:15 p.m.



Photograph No. 1 Orientation: North Location: SWMU 1 Date: January 17, 1994

Description: This photograph shows mixed waste drums in secondary containers. Secondary

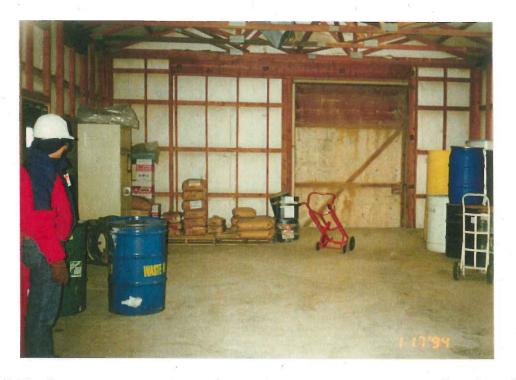
container on the left is empty.



Photograph No. 2 Orientation: North Location: SWMU 1 Date: January 17, 1994

Description:

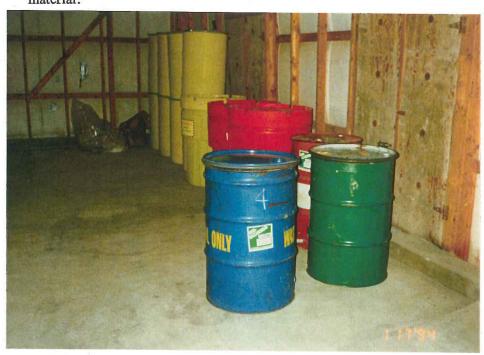
The mixed waste drum in the secondary container on the right is full, whereas the drum in secondary container on the left is about half full. Note the spill control booms surrounding the secondary containers and the absorbent pads stored on the right.



Photograph No. 3 Orientation: East Location: SWMU 2 Date: January 17, 1994

Description:

This photograph shows hazardous waste container storage area. Drums on the right are empty and three drums on the left contain nonhazardous waste. Note the spill control material in the left corner. The closet on the left also contains spill control material.



Photograph No. 4 Orientation: Northwest Location: SWMU 2 Date: January 17, 1994

Description:

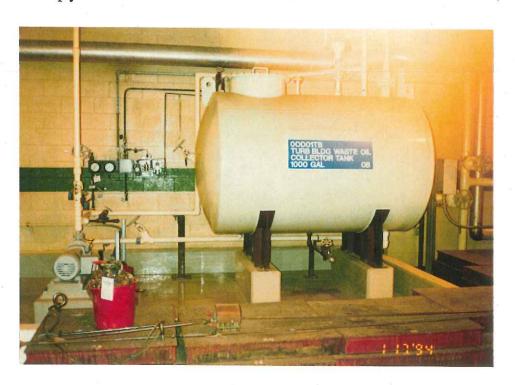
The Blue, green, and red 55-gallon tanks shown in this photograph contain nonhazardous waste. The two red and one yellow overpacks should be noted. The yellow overpack contains spill control booms. The yellow, 55-gallon drums are empty.



Photograph No. 5 Location: SWMU 3 Orientation: Northwest Date: January 17, 1994

This photograph shows waste oil storage pad. Most of the drums on the pad are Description:

empty.



Photograph No. 6 Location: SWMU 4 Orientation: North Date: January 17, 1994 Description: This photograph shows the 1,000-gallon, aboveground, used oil storage tank at level

601 of the turbine building. Note the concrete floor and the berm.

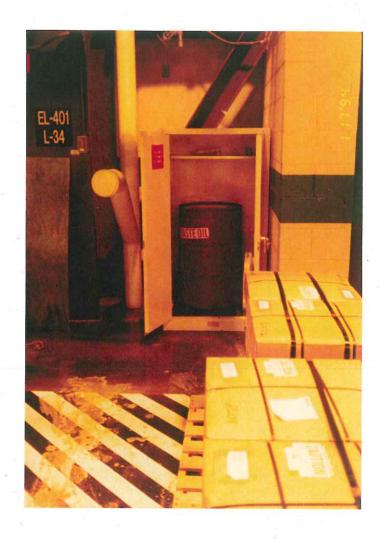


Photograph No. 7 Orientation: North Location: SWMU 5 Date: January 17, 1994

Description: This photograph shows the satellite accumulation areas (SAA) for chlorinated and

nonchlorinated solvents. The middle cabinet is the secondary container for a used oil

55-gallon drum and stores spill control material.



Location: SWMU 5 Date: January 17, 1994

Photograph No. 8
Orientation: North
Description: This photograph shows the freon-contaminated oil and water SAA.



Photograph No. 9 Orientation: West Description: Thi

Test Date: January 17, 1994
This photograph shows the indoor oil skimmer (equipment on white frame). The oil skimmer on the right is being replaced by the one on the left. Note the used oil accumulation drum in the center.



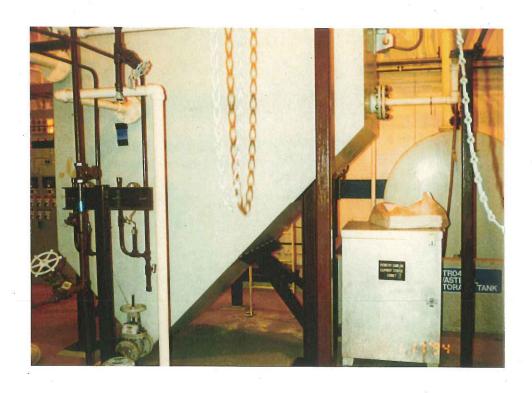
Photograph No. 10 Orientation: Northwest Location: SWMU 7 Date: January 17, 1994

Location: SWMU 6

Description: This photograph shows the aboveground position of outdoor oil skimmer

(underground) on the northeast of the turbine building. Red object in the middle is

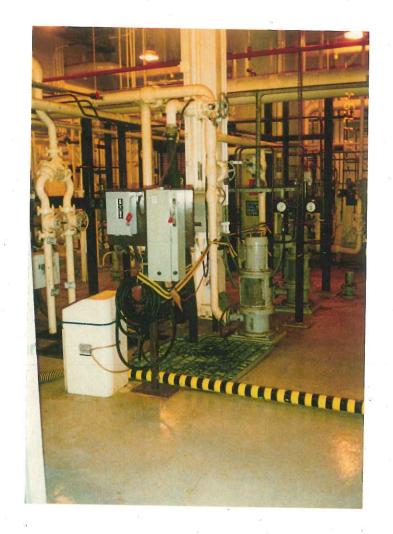
the oil pump.



Photograph No. 11 Orientation: Southwest

Location: SWMU 8

This photograph shows the oil skimmer and used oil accumulation tank inside the wastewater treatment plant. Description:



Photograph No. 12 Orientation: Northwest

Description:

Location: SWMU 8 orthwest Date: January 17, 1994
This photograph shows the wastewater treatment plant. The cylindrical object to the

right is the pump for discharging treated water to the pipes leading to the Kankakee

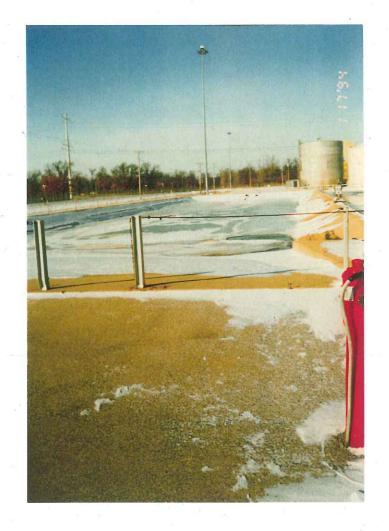
River.



Photograph No. 13 Orientation: North Description: This

Description: This photograph shows the WWTP sludge pond.

Location: SWMU 9 Date: January 17, 1994

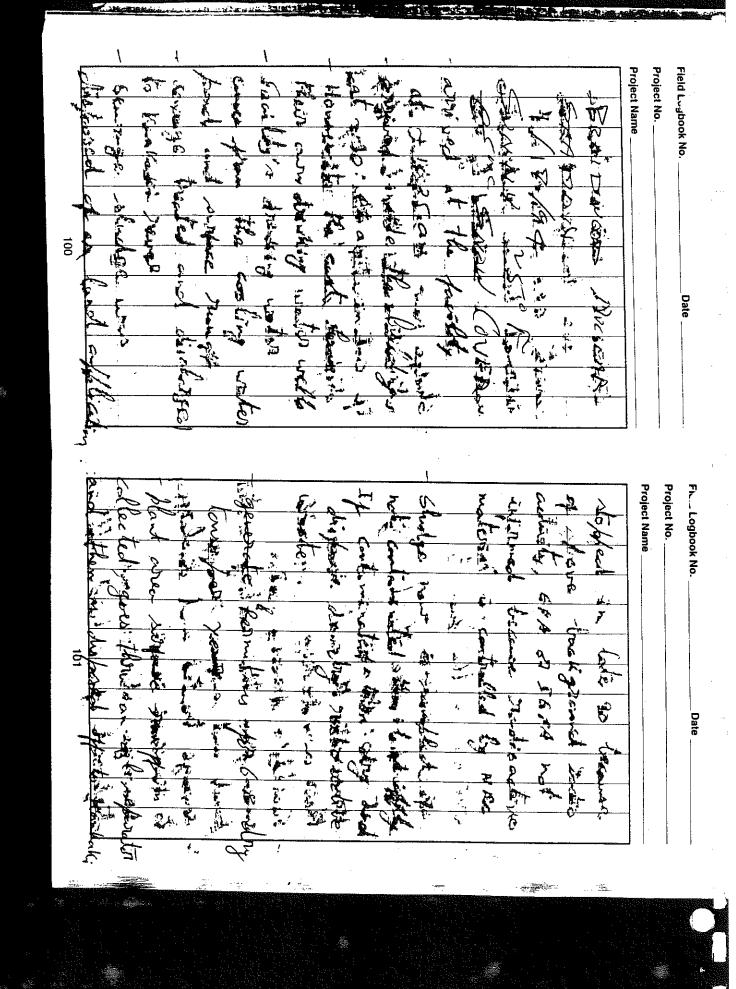


Photograph No. 14 Orientation: North Description: This

Description: This photograph shows the lime sludge pond.

Location: SWMU 10 Date: January 17, 1994

VISUAL SITE INSPECTION FIELD NOTES (Nine Sheets)



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